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TRANSCRIPT OF HEARING ON IMPROVING U.S. PARTICIPATION IN INTERNATIONAL STANDARDS ACTIVITIES

SECOND DAY: APRIL 4, 1990

**U.S. DEPARTMENT OF COMMERCE
National Institute of Standards
and Technology
Technology Services
Office of Standards Services
Gaithersburg, MD 20899**

**U.S. DEPARTMENT OF COMMERCE
Robert A. Mosbacher, Secretary
NATIONAL INSTITUTE OF STANDARDS
AND TECHNOLOGY
John W. Lyons, Director**

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TRANSCRIPT OF PROCEEDINGS

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY

DEPARTMENT OF COMMERCE

STANDARDS HEARING

Pages: 1 through 248

Place: Washington, D.C.

Date: April 4, 1990

HERITAGE REPORTING CORPORATION

Official Reporters

1220 L Street, N.W., Suite 600

Washington, D.C. 20005

(202) 628-4888

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY
DEPARTMENT OF COMMERCE

HEARING PANEL MEMBERS' MEETING

Wednesday
April 4, 1990

9:00 a.m.

Department of Commerce Auditorium

Heritage Reporting Corporation
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Present on Panel:

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Director, Office of European Community Affairs
International Trade Administration
Department of Commerce
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Washington, D.C. 20230

Presenters Present:

LEONARD FRIER
MET Electrical Testing Company

PETER GUZMAN
EARL GMOZER
ETL Testing Laboratories

JAMES JOHNSON
Amador Corporation

CHESTER GRANT
American Association for Laboratory Accreditation

JIM MAYBEAN
Aerospace Industries Association, Quality Assurance
Committee and National Security Industrial Association,
Quality and Reliability Committee

W.A. SIMMONS
National Conference of Standards Laboratories

GEORGE MORAN
American Society for Nondestructive Testing

STEPHEN COONEY
National Association of Manufacturers

BERNARD FALK
National Electrical Manufacturers Association

RAYMOND ATTEBERY
RALPH TAYLOR
WARREN POLLOCK
BRUCE McCLUNG
Chemical Manufacturers Association

WALTER CEBULAK
TOM STARK
BARBARA BOYKIN
Aerospace Industries Association

MORGAN COOPER
HERBERT PHILLIPS
DONALD MACKAY
Air-conditioning and Refrigeration Institute

Presenters Present: (continued)

C. RUBEN AUTERY
JOHN P. LANGMEAD
Gas Appliance Manufacturers Association

WILLIAM MILLER
DENNIS ECKSTINE
Construction Industry Manufacturers Association

DAVID KING
WILLIAM BRADLEY
SUSAN HERRENBRUCK
PETER LAMB
American Gear Manufacturers Association

WILLIAM MONTWIELER
MATTHEW HALL
Industrial Truck Association

DAVID MARTIN
ROBIN W. GROVER
Plumbing Manufacturers Institute

JOHN MARTIN
Automotive Industry Action Group

ROBIN W. GROVER
Water Quality Association

JIM BROWN
DALE FOX
National Association of Underwriters Instructors

EDWARD ROZYNSKI
ROBERT FLINK
Health Industry Manufacturers Association

GERALD RITTERBUSCH
G. WILLARD JENKINS
J.K. HALE
Equipment Manufacturers Institute

GREGORY GOULD
Gould Energy

MARILYN WARDLE
E.I. du Pont de Nemours and Company

P R O C E E D I N G S

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CHAIRMAN WARSHAW: Good morning, ladies and gentlemen. For those that may not have been with us yesterday, let me just make a couple of administrative announcements.

You do have an agenda package and the last page of that agenda package has an information sheet on how to obtain information relative to this hearing and to the written comments we have been receiving, and will be receiving for the extended comment period for 60 days following this hearing, that is through June 5th.

So we welcome additional written comments up until the close of business June 5th.

For today's session, there have been two cancellations and you might wish to note that. The 9:30 presentation by Cash and others has been cancelled, and the 4:15 p.m. presentation by Bussmann Company has been cancelled.

In terms of tomorrow's agenda, there have been three cancellations -- one at 10:15 by AT&T Bell Labs; one at 2:15 p.m. by NKA Incorporated; and the one at 3:00 p.m. by Paul Lahr and others.

The conduct of the meeting today will be the same as yesterday. Each presenter has been asked to present his oral remarks within a ten minute time frame, allowing an

1 additional five minutes then for presentations from the
2 panel.

3 Let me re-introduce the panel. From the National
4 Institute of Standards and Technology, of course, is myself,
5 Stanley Warshaw, Walter Leight to my right, and to his
6 right, John Donaldson.

7 We are also very fortunate to have assisting us
8 and advising us in terms of getting points of clarification,
9 if you will, from those making presentations are
10 representatives from other agencies.

11 To my far left we have John McCutcheon of the
12 Department of Agriculture. We have Deborah Moore of the
13 Department of State, I mean Wendy Moore of the Department of
14 State -- I didn't get my second cup of coffee.

15 And Phil White to my far right, somebody was
16 saying Bob White -- that is the new Under Secretary of
17 Technology for Administration who I believe is still
18 designate but is in the process of confirmation.

19 And so our first two panelists today are already
20 here at the podium. We have Leonard Frier of MET Labs and
21 we have Peter Guzman and Earl Gmozer of ETL Testing Labs.

22 So I will ask Mr. Frier if he would present the
23 views of MET Labs.

24 MR. FRIER: Good morning, gentlemen. I was told
25 to start off with a joke this morning, but the joke I heard

1 down in the cafeteria, I am afraid I can't start off with
2 that one, so I will just go on with my testimony.

3 My name is Leonard Frier and I am president of MET
4 Electrical Testing Company in Baltimore, Maryland. My
5 remarks are going to be directed towards the issue of
6 testing and certification on electrical, electro-medical and
7 electro-mechanical products only. They are not related to
8 the issue of standards.

9 We are the first licensed nationally recognized
10 testing laboratory in the United States. This distinguished
11 title did not come easily. From this effort, we know the
12 significance of having an accreditation which has a value
13 and that which does not. The issue of testing and
14 certification, laboratory accreditation with value, and I
15 emphasize value, is the issue.

16 MET was accredited by A2LA for Electrical Testing
17 and by BOCA -- that's the Building Officials and Code
18 Administrators, amongst others. None of these
19 accreditations provided us any business or any tangible
20 acceptance of our services from persons requiring
21 certification.

22 MET was one of the original partitioners to
23 establish a LAP at NIST for telecommunication. We saw the
24 need to demonstrate the capabilities of laboratories in some
25 type of authoritative way.

1 After approximately one year, the LAP was
2 established and MET was accredited. NIST administered the
3 NVLAP program for telecommunications. Under this program,
4 the single Government agency which can require NVLAP
5 accreditation for telecommunications and give is some value,
6 is the FCC.

7 Yet they don't and apparently they won't. FCC
8 accepts reports from any lab which has a test site on file.
9 Here NVLAP has no value.

10 The Europeans, on the other hand, know what they
11 are doing. First, most countries in the EC have or are
12 establishing requirements for certain products to be third
13 party tested and identified. It is not left to individual
14 jurisdictions.

15 Then they have accredited laboratories and will
16 require the certification of their laboratories on regulated
17 products. The United States does none of this. The United
18 States still does not have a United States Certification
19 Mark.

20 Fifty-four countries in the world, including every
21 country in the EC, has a certification mark and now the EC
22 has a mark. If the United States is going to try to put in
23 a system that has reciprocity with the Europeans under NIST,
24 in plain language, it won't work.

25 Unless Congress changes something, NIST or the

1 U.S. Department of Commerce itself cannot require electrical
2 inspectors throughout the United States to accept products
3 they don't want to accept.

4 NIST or Commerce cannot tell housewives to buy a
5 toaster or Christmas tree lights, when they were taught in
6 elementary school that, if they plugged in a toaster or
7 Christmas tree lights without a UL label, that the house
8 would burn down.

9 And this is not an exaggeration. This is why the
10 Europeans call us a Star Spangled Barrier to trade. We, the
11 United States, did not let a European manufacturer,
12 manufacture his products in Europe to United States
13 standards, test them in Europe for certification and sell
14 them in the United States.

15 Now that the Europeans are going to put in a much
16 less restrictive system than we ever had, we're scrambling
17 around trying to figure out what to do.

18 For years, Underwriters Laboratories determined
19 which electrical products would be sold in this country and
20 which would not. There was no appeal to their decisions.
21 It was final.

22 They charged the prices they wanted and took as
23 long as they wanted. They stifled innovation by making the
24 ability for a manufacturer to get a product to the market
25 too long and expensive, especially when a new standard was

1 involved.

2 If the Europeans did anything close to this by
3 having only one lab which could approve certain electrical
4 products, only one group that wrote certain electrical
5 standards with no appeal, that decided on its own which
6 standards they would write and which they would not, what
7 would the U.S. position be?

8 If we are going to put in a system, it's got to
9 work.

10 The only government agency that can bring any
11 value to certification of most regulated products is OSHA.
12 OSHA has the power to pre-empt states and require code
13 inspectors to accept certain marks of certification.

14 OSHA also has the power to require a U.S.
15 certification mark in any form and get it recognized. The
16 U.S. certification mark can be extended to food products
17 through USDA, medical products through FDA, etc. When seen
18 on these items, it may eventually have some credibility with
19 the consumer.

20 With strong and valid reasons, I would strongly
21 oppose any attempt by any agency to establish a system that
22 will weaken OSHA in its Laboratory Accreditation Program.
23 Today, it's the only one in the United States on electrical,
24 electro/mechanical or electro/medical products with any
25 value. We must build on this.

1 If there is going to be a public/private
2 partnership it must be with OSHA, USDA, FDA, FCC -- not
3 NIST, unless congress gives NIST some special powers.

4 Thank you for allowing me to testify on this
5 critical issue.

6 CHAIRMAN WARSHAW: Thank you, Mr. Frier. Any
7 questions from the panel? Mr. McCutcheon.

8 MR. McCUTCHEON: Mr. Frier, I would like to ask a
9 question about your reference to USDA, particularly and
10 possibly FDA. I know in USDA we have two programs that I
11 can think of that you might be referring to. One is the
12 voluntary grading program which is a fee for service
13 activity that is paid for by the industry.

14 There is the inspection program that has on the
15 products USDA inspected in the past. That is an inspection
16 program with about 8,000 inspectors throughout the country,
17 inspecting all the products on a continuing basis.

18 It is unclear to me from the point that you
19 outlined, the problem that you are having, and in
20 particular, what remedies are you seeking? Are you trying
21 to allude to a mandatory inspector program or what is your
22 recommendations as a result of the issues pointed out?

23 MR. FRIER: Of course, my recommendation is not
24 for you to change your programs at all, but that a U.S. mark
25 exists that has universal acceptance and one that mark for

1 USDA, one side would have a significant logo, you might say,
2 and on the other side would be the typical USDA designation.

3 And with USDA, certain organizations have the
4 authority to provide services to make the products
5 acceptable in the marketplace and these people could be duly
6 authorized to apply this mark along with the USDA mark.

7 I am thinking of it with the Europeans
8 particularly when food additives get involved and I think
9 USDA has an issue there, and I know that is a trade issue.
10 I say that if there are laboratories in Europe that have the
11 ability to test these products in accordance with USDA
12 requirements and apply that approval, that they be given the
13 right to apply this mark.

14 Likewise, this would be the American laboratories that
15 have the ability to test food additives that go into Europe
16 would apply a similar EC mark and that would be something
17 that could be negotiated with governments -- government to
18 government negotiations with the U.S. Trade Representative
19 here, and the EC Commission in Europe or other agencies.

20 Then, and only then, could the Trade
21 Representative offer something. Right now they have nothing
22 to offer in the trade negotiations relative to reciprocity
23 on what would signify something that is acceptable in this
24 country, because the Europeans absolutely have something
25 that they could offer to say what would signify something

1 that is acceptable in Europe.

2 MR. McCUTCHEON: Okay, thank you.

3 CHAIRMAN WARSHAW: Mr. Donaldson.

4 MR. DONALDSON: Mr. Frier, you made a reference to
5 54 countries having national certification marks, I think.
6 Could you, one, give me one or two examples of what you are
7 considering national certification marks in other countries,
8 and secondly, would you be able to cite a reference for
9 where the 54 comes from? Thank you.

10 MR. FRIER: Yes, sir, I have a published document
11 that I don't have with me. I will be glad to make that
12 available to you, but one mark of course would be the GS
13 mark, another mark would be BSI, another mark would be 4CC
14 which is new, the CSA mark from Canada is a national mark.
15 Of course, they are a more national type of government, and
16 Japan has the T-mark.

17 There are 54 countries including the Soviet Union,
18 Yugoslavia, Uruguay, I can't mention them all but there are
19 54 and every one has a mark.

20 MR. DONALDSON: In terms of a national mark, in
21 your example of the CSA as a case, there are other marks
22 used in Canada in other areas and so I am not quite sure
23 when you say a national mark, would you be able to
24 characterize that a little bit?

25 MR. FRIER: No. I really am not familiar with

1 Canada other than within this publication that I have, when
2 you look up Canada as a country, the CSA mark appears and
3 they call that the national mark. This is the U.S.
4 Certification Marks of the World systems and I think that is
5 the name of the publication.

6 The U.S., however, has a blank page.

7 MR. DONALDSON: The reason I ask is I don't see a
8 whole lot of difference between the CSA mark as it is used
9 in Canada, and the UL mark that has been used in the past.

10 So I think the best thing would be if you could
11 provide us with your reference and make that part of the
12 record. It would be very useful. Thanks.

13 MR. FRIER: I would be pleased to do that.

14 CHAIRMAN WARSHAW: Thank you. Any other
15 questions? Thank you very much, Mr. Frier.

16 And now, ETL.

17 MR. GUZMAN: Good morning, ladies and gentlemen.
18 My name is Pedro T. Guzman. I am president and chief
19 operating officer of ETL Testing Laboratories in Cortland,
20 New York.

21 I am pleased to appear at this hearing to offer
22 some comments related to improving United States
23 participation in international standards-related activities
24 and possible government actions related to global trade.

25 ETL Testing Laboratories is an independent,

1 commercial laboratory providing testing for safety,
2 performance, and certification services for government,
3 manufacturers, as well as for trade associations of
4 commercial, industrial and consumer products.

5 Organized in 1896 as the lamp testing bureau of
6 the early Edison Companies, ETL's scope has evolved into a
7 multi-disciplined laboratory, having regional laboratories
8 in Atlanta, San Francisco, New York, Hong Kong, and Taiwan.

9 ETL's product testing and certification services
10 are widely recognized and accepted by commerce, industry,
11 trade and code groups. ETL uses literally hundreds of
12 national and international standards in its testing mission
13 and its staff participate generously on committees that
14 develop these standards. It can be noted that ETL Testing
15 Laboratories has a genuine interest in the subject of
16 today's hearing.

17 Although the actions and recommendations resulting
18 from this hearing are sure to affect our national as well as
19 our international posture, we would like to believe that
20 they will be positive and not burdensome or costly to us, to
21 our clients, and our peer laboratories.

22 It is obvious that EC 92 has put an entirely new
23 focus on how the U.S. standards system and our government
24 foreign trade activities serve our needs in the world
25 marketplace.

1 The acceptance of our product conformity services
2 by other countries has been difficult, if not impossible.
3 The foregoing is not to say that we are denied all entry to
4 foreign markets. ETL does business internationally with
5 some of its other services, specifically where they are
6 rendered to a client for his own use.

7 It is when the test report or certification mark
8 for safety is to be used that the barriers appear.

9 Breaking through international market barriers is
10 very complex because of border, treaty, financial and safety
11 regulations, as well as nationalistic attitudes.

12 They are many success stories of commercial or
13 business entities being able to market their products
14 worldwide, but almost always requiring testing and
15 certification to be performed by a local laboratory and
16 using a local mark.

17 Because of the nature of these barriers, many of
18 which are governmental regulations, we believe that American
19 industry and commerce cannot, on their own, influence a
20 change in the global system or to these trade barriers.

21 Thus, it falls to U.S. governmental agencies
22 charged with furthering the nation's international trade to
23 help industrial and commercial interests, and particularly
24 the independent testing laboratories, to overcome these
25 areas.

1 EC 92 has certainly been the catalyst that brought
2 attention to the need to re-evaluate and change the system
3 of acceptance of product conformity services in the
4 international field. Matters of testing and certification
5 of products is uppermost in our minds.

6 How products and testing standards, certification,
7 and quality system requirements influence the marketability
8 of our industry's services is consuming a great deal of our
9 time.

10 With the foregoing comments as background, my
11 remaining remarks will deal with how we believe government
12 and the private sector can work together to benefit the U.S.
13 testing laboratory industry in promoting the acceptance of
14 the services worldwide.

15 It seems that almost every day a stream of mail
16 passes my desk containing articles about this subject, and
17 notices of seminars, committee meetings, and developments
18 all in the interest of moving the matter forward.

19 Of these many documents, those drawing our
20 particular attention are the activities of our government
21 trade committees and the American National Standards
22 Institute.

23 In particular, also are the activities of the
24 Industry Functional Advisory Committee and the U.S. Trade
25 Administration.

1 For example, the efforts of Dr. Duesterberg of the
2 USTA are particularly helpful in the realm of ISO/IEC and
3 CEN/CENELEC standards activities in conjunction with ANSI,
4 the U.S. member of ISO.

5 Although much needs to be done, there are
6 governmental agencies, charged with trade responsibilities,
7 are beginning to plan, seek guidance from the private
8 sector, and otherwise bring the influence of their offices
9 to bear in those areas of trade that are of government-to-
10 government in scope.

11 The efforts of ANSI deserve our support in its
12 role as the nation's principal standards coordinator. It
13 has a proper place in the scheme of development and
14 coordination of the nation's numerous standards.

15 Its additional task as the U.S. member of ISO/IEC,
16 and recent success in implementing improved access as the
17 channel for U.S. input to CEN/CENELEC standards makes it an
18 important link in the development of European standards
19 acceptable to U.S. interests.

20 The need to serve the growing trade-related
21 activity was recognized by ANSI with the opening of offices
22 in Washington and Brussels. We, at ETL, are members of and
23 active in ANSI and their many committees, noticeably, the
24 Certification Committee, International Certification
25 Subcommittee, and U.S. National Committee for ISO/IEC.

1 ANSI can succeed in representing the private
2 sector's interest, and influence the attitudes of other
3 countries in harmonization of product safety, product
4 performance, and conformity standards.

5 In December 1989, Dr. Stanley Warshaw distributed
6 an information piece outlining a possible counterpart model
7 in the U.S. to the Standards Council of Canada.

8 Suffice it to say that most of the goals described
9 in the document are very commendable. If these would be
10 implemented, they would do much to advance the cause of
11 improving trade matters and acceptance of independent
12 laboratory services in the international marketplace.

13 Whether it needs to be a Standards Council of the
14 United States, with the inference that it be the standards
15 coordinator for the U.S. as well as the U.S. member body to
16 international and regional standards development
17 organizations, is debatable.

18 ANSI already performs several of these functions.
19 However, government needs to participate fully in matters
20 relating to testing, certification and accreditation related
21 to international trade with a governmental unit recognized
22 as representing the U.S. interests in government-to-
23 government relationships.

24 The private sector also needs to more fully
25 develop its organizations to conduct these affairs.

1 However, the basic approach should be what has been said so
2 often recently, even in these hearings, that there should be
3 a great partnership between government and the private
4 sector.

5 The details of forming such a partnership need to
6 be worked out.

7 In summary, the situation as we see it is that
8 independent commercial laboratories do not have a clear
9 channel to be recognized in the global marketplace. The
10 GATT treaty does not cover the matters of testing,
11 certification and accreditation in enough detail to be
12 helpful.

13 The way the present product safety approach to EC
14 92 and other nations appears to be heading, favors a single
15 national laboratory approach with Memorandums of
16 Understanding with equal counterparts in other countries
17 keeping the independent laboratories out of participation.

18 Lacking an official system of accrediting
19 independent commercial laboratories for global trade, the
20 U.S. may, by default, end up having only one accepted
21 laboratory. With EC 92 rapidly approaching, much more needs
22 to be done by and for the independent laboratory community.

23 In conclusion, we make the following two
24 recommendations dealing with standards in general, and in
25 testing, certification and accreditation in particular.

1 One, continue with a strong private sector input
2 for national and international standards activity through
3 the American National Standards Institute.

4 Two, create an organization, chartered by
5 Congress, to be the focal point for government to government
6 relations on testing, certification and accreditation
7 matters, and the vehicle for which all U.S. independent
8 laboratories providing these services may be accepted in the
9 global marketplace.

10 ETL, and the laboratory industry in general, is
11 anxious that an effective cooperative program of action will
12 result, and that the world marketplace, and EC 92 in
13 particular, be open for an exchange of our services without
14 trade barriers or cumbersome requirements.

15 The principal beneficiaries of such activity will
16 be our clients, the manufacturers themselves selling in the
17 world marketplace. They could select from a competitive
18 list of U.S. accredited laboratories, and receive a test
19 report for a certification mark which would be acceptable in
20 the U.S. and in other countries as well.

21 The free exercise of the private sector and the
22 influence of government are the key ingredients necessary to
23 accomplish this task.

24 Thank you for allowing us to participate in this
25 hearing.

1 CHAIRMAN WARSHAW: Thank you, Mr. Guzman. Mr.
2 Leight, do you have a question?

3 MR. LEIGHT: Yes. I wonder, you separated
4 standardization from testing and certification,
5 specifically, in your two recommendations. In your second
6 recommendation, you talked about a congressional chartered
7 unit that would look into these matters.

8 I wonder if you would care to expand a little bit
9 on what sort of unit you have in mind.

10 MR. GUZMAN: You know, in all the inter-
11 relationships with our government units and departments and
12 agencies and etc. work, all I am anxious is for some sort of
13 government function to be able to talk to the other
14 government functions in matters of testing and
15 accreditation.

16 I don't have any specific department or unit to
17 recommend in that area.

18 MR. LEIGHT: Thank you.

19 CHAIRMAN WARSHAW: Thank you. Mr. White.

20 MR. WHITE: Could you tell us what kind of testing
21 activities that your laboratory does and also if you do just
22 testing for U.S. products, or do you do testing for other
23 products?

24 MR. GUZMAN: Two questions, first, what kind of
25 testing does ETL Laboratory perform.

1 As I said earlier in the speech, we perform
2 testing of products, primarily products. We are not a
3 research laboratory. We perform testing on commercial
4 products, industrial products, consumer products. We test
5 to specifications, they being either national specifications
6 or specifications given to us by the customer.

7 We also test to safety standards. We do perform
8 testing to international products when they are coming into
9 this country.

10 MR. WHITE: And I was just wondering if your
11 recommendations were based upon your own experience, or have
12 you done some outreach with the European community
13 counterparts? Have you attempted to set up any kinds of
14 working arrangements with testing laboratories over there?

15 MR. GUZMAN: The answer is yes to all of the
16 above. Let me explain.

17 My primary nature of the recommendation is why
18 should we, in this country, need to establish memos of
19 understanding with other labs in other countries, when they
20 can come in this country? They can be recognized by this
21 country.

22 I think we need an equal system so that we can
23 operate on an equal basis, and I think the memos of
24 understanding are not necessarily the best vehicle for the
25 testing laboratory community.

1 MR. WHITE: Thank you.

2 CHAIRMAN WARSHAW: Wendy?

3 MR. MOORE: In your view, would the accreditation
4 system be likely to pre-empt other existing agencies or lab
5 accreditation systems? Would that be your vision of how the
6 testing and certification system should work?

7 MR. GUZMAN: Wait until the cart goes by.

8 MS. MOORE: Would your vision of how this U.S.
9 testing and accreditation system worked include pre-emption
10 of existing agency programs such as the OSHA program that
11 Mr. Frier mentioned?

12 MR. GUZMAN: My recommendation would be that the
13 whole nature of whatever system we set up be debated and I
14 think it should be debated by people in this audience and
15 other people.

16 I think you will see there are a lot of people
17 crying for a change in the system, and I don't think we are
18 experts to tell you exactly how the system be set up. I
19 think we can tell you what we need and how we feel about it,
20 and I think we ought to debate that whole issue for some
21 time so that we do it intelligently.

22 MS. MOORE: Thank you.

23 CHAIRMAN WARSHAW: Mr. Donaldson.

24 MR. DONALDSON: Mr. Guzman, as you may well know,
25 NIST has cooperated with the Office of the U.S. Trade

1 Representative for the last ten years in dealing with
2 reports of technical barriers to trade received from the
3 private sector.

4 While I recognize and acknowledge your statement
5 that testing and certification is not quite as well
6 specified within the gas standard code, I can't recall any
7 instances in which ETL filed any alleged problems with us,
8 for us to review.

9 So what I would like to ask, given your reference
10 to experiencing a number of technical barriers to trade, I
11 would ask that if you could specific some of these
12 specifically and submit them subsequently for the record, I
13 would appreciate it. Thank you.

14 MR. GUZMAN: We will certainly do that. Thank
15 you.

16 CHAIRMAN WARSHAW: Thank you. Are there any
17 questions from the panel?

18 I want to thank you both very much for your very
19 concise presentations.

20 Now I would like to ask Mr. Johnson of the Amador
21 Corporation and Mr. Grant of the American Association for
22 Laboratory Accreditation to come forward.

23 (Pause.)

24 CHAIRMAN WARSHAW: Good morning.

25 MR. JOHNSON: Good morning.

1 MR. GRANT: Good morning.

2 CHAIRMAN WARSHAW: Mr. Johnson, the Amador
3 Corporation.

4 MR. JOHNSON: Thank you, Dr. Warshaw, and
5 particular thanks to NIST for holding these hearings.

6 I am Jim Johnson. I am associate and chief
7 executive officer of Amador Corporation, and in the opinion
8 of Amador, this "honest dialogue", to use the term that USSR
9 Secretary Shvardnadze's used yesterday in the Lithuanian
10 situation, is long overdue.

11 However, I was disappointed to read a comment from
12 Mr. John Lyons in the latest issue of Laboratory Regulatory
13 News. I quote, "I don't have an agenda but I would like to
14 see the private sector keep running the standards business."
15 That's an agenda. That stifles dialogue.

16 I would ask that Amador's remarks dated March 21st
17 submitted in response to the Federal Register notice be
18 entered into the hearing record following my oral remarks.

19 CHAIRMAN WARSHAW: We will.

20 MR. JOHNSON: I have a correction in the second
21 paragraph of page 13 -- replace Murray with Britain.

22 I would also ask that our additional written
23 remarks be included at this point.

24 CHAIRMAN WARSHAW: They will.

25 MR. JOHNSON: Thank you, Dr. Warshaw.

1 I, like Walter Poggi, who spoke to you yesterday,
2 am a small businessperson. There is a saying that goes that
3 one has no permanent enemies, one has no permanent friends,
4 one only has one's permanent interests.

5 Amador, like the other organizations testifying at
6 this hearing, does not escape from this dictum. For Amador,
7 a Minnesota-based EMC testing lab, our permanent interest is
8 survival which is only possible through serving the needs of
9 our clients, electronics manufacturers requiring EMC testing
10 and product certification.

11 I refer you to a written statement for our general
12 background and our credentials in being able to speak to you
13 this morning. We are proud company, even though we are
14 quite small. We only have 35 associates, but over one-third
15 of our business relates to international testing and
16 certification, a real growth area for our firm.

17 Our view, as a supplier to America's electronics
18 firms, is that the American electronic industry is in the
19 early stages of a death spiral. I repeat, American'
20 electronics firms are in a death spiral.

21 The reason is plainly the problem of international
22 competition. In our response to the Federal Register
23 notice, we proceeded through the notice and answered the
24 questions one by one.

25 We thought the questions were important. We hope

1 you think our answers are important. We hope you pay
2 particular attention to the questions regarding the TAG
3 participation.

4 I have an update on my written testimony. On
5 Monday of this week, upon returning from a trip to Eastern
6 Europe where U.S.-based communications is quite difficult, I
7 found a FAX from our TAG secretary outlining that the
8 CISPR/B TAG meeting scheduled in Washington, D.C. for
9 yesterday was moved until next week.

10 A call to the secretary elicited the response that
11 two members interested in pursuing their EMC testing
12 exemptions would be missing on the 3rd and asked to have the
13 meeting postponed. It was. No problem.

14 I now, however, have a conflict next week. I
15 won't be there.

16 Now, the exemption will be debated next week
17 without me, the only EMC lab TAG member, and without the
18 representative from NTIA. Once again, point, game, set,
19 match for the big business interests on EMC exemption
20 issues.

21 My trip from Minnesota cost \$622 coach on
22 Northwest. You all know what hotel rooms cost in this town.
23 Amador does less than one percent of its business, its
24 testing business, in the area of the TAG to which I belong,
25 the CISPR/B ISM, Industrial, Scientific, Medical.

1 Now you tell me that there isn't bias in the
2 system. My written testimony provides another anecdote to
3 illustrate the case that the TAG program does not work for
4 ISM.

5 We also cite cases of how up to ten years or so is
6 often required to pass an ANSI standards in the area of EMC.
7 It's not working. You know it. Industry knows it. The
8 Emperor has no clothes, or put another way, you as the
9 Emperor, should tell us, the industry, that we have no
10 clothes.

11 Our answer is not more government. The answer is
12 a better bureaucracy with a better trained bureaucrat paid
13 to do what he or she is worth, armed with the rules and
14 regulations that give our bureaucracy some teeth so that our
15 bureaucrats can take their places alongside the outstanding
16 bureaucrats of the EC and Japan.

17 I have been to the EC to Brussels with the USTR in
18 the MAFF talks. EC bureaucrats have visited our labs.
19 These people are good and they are helping, not hurting,
20 their electronic manufacturers.

21 And what about Eastern Europe and the USSR? Here
22 we may have the best bureaucrats of all. And they care
23 about standards.

24 Please allow me to enter into the record portions
25 of a communication from a first class bureaucrat from the

1 USSR. This is a letter that was directed to me and I told
2 this gentleman that I would present this this morning.

3 To Mr. Johnson of Amador Corporation, proposals
4 for establishing an international system of certifying
5 electronic and electrical equipment to meet EMC standards.

6 Currently in a number of countries, national
7 systems of certification have been established for
8 electronic and electrical equipment to meet the norms of
9 industrial radio interference which has great importance in
10 effectively solving the EMC problem.

11 The regional systems of certification of the
12 indicated equipment, according to the parameters of radio
13 interference, are being established by the countries of the
14 European economic community.

15 One of the constituent parts of the Soviet system
16 of certification of electronic and electrical equipment in
17 accordance with the EMC standards must be to the testing
18 center of the joint venture sand test.

19 The existing differences in the requirements of
20 national standards which regulate the levels of radio
21 interference in immunity of electronic/electrical equipment
22 as well as testing methods create certain difficulties in
23 international trade.

24 They understand that problem.

25 All of the testimony and questions that have been

1 to date, have been about the EC and Japan. Read the
2 headlines. We have over 500 million people, new consumers,
3 coming into the mainstream, and the bureaucrats representing
4 these people know how to regulate it, for whatever reasons,
5 and we had better learn -- and fast -- and NIST is the
6 change agent to make it happen.

7 Don't copy someone else's model. Create your own.
8 Use ANSI. They have contributions to make. But take
9 charge, and do it now.

10 Don't let this hearing process become a metaphor
11 for the standard-setting process of this country. You know,
12 diddle around, diddle around, don't offend anybody and
13 pretty soon the standard's real effect is lost.

14 What we are talking about is losing an entire
15 industry, the electronics industry and by setting standards
16 is but one way that government can help to save that
17 industry.

18 It isn't the only way, but it sure is the best
19 thing that NIST can do.

20 So in my written statement I said go ahead, take a
21 chance. Take some risks. The country needs you.

22 For my part, I have taken this message to our
23 Senate and Congressional delegation and they are interested.
24 I am Chairman of the American Electronics Association
25 Minnesota Council, 84 electronic companies in the State of

1 Minnesota.

2 Our Congressional people are interested in jobs
3 and jobs is what we are talking about.

4 Thank you very much, and I will be available for
5 any questions.

6 CHAIRMAN WARSHAW: Thank you, Mr. Johnson. Mr.
7 Donaldson.

8 MR. DONALDSON: Mr. Johnson, thank you for the
9 comment.

10 One area that you did not include in your remarks,
11 and obviously time was short, but I wondered if you might
12 comment in terms of government regulation, procurement and
13 other activities in the area which you are concerned, if you
14 have any comments about what the status of the government,
15 what implications that has for you.

16 MR. JOHNSON: Let me see if I understand your
17 question. What are the status ---

18 MR. DONALDSON: Well, you have commented pretty
19 much on what ANSI has been doing. You have commented with
20 respect to the international developments, but at the same
21 time, we have heard comments from other people presenting
22 comments at the hearing with respect to what FCC is or is
23 not doing, and other related government agencies.

24 I wondered if you had anything to say about the
25 implications of the government infrastructure for you.

1 MR. JOHNSON: In a word, it is an embarrassment.

2 MR. DONALDSON: That's a succinct comment.

3 (Laughter.)

4 MR. JOHNSON: To elaborate, when you compare the
5 way the FCC performs, and my colleagues from ETL and MET, in
6 their excellent testimony, summed it all up. I mean, you
7 just can't begin to compare the way we operate in this
8 country with the way it happens in Germany, the way it
9 happens in Japan.

10 We are losing the war on every front, my friends,
11 and this is a clear example of where you can do something
12 about it.

13 CHAIRMAN WARSHAW: Any other questions? Can you
14 do something about these microphones?

15 MR. JOHNSON: I have engineers back in Minnesota
16 that can.

17 (Laughter.)

18 CHAIRMAN WARSHAW: Thank you very much, Mr.
19 Johnson.

20 MR. JOHNSON: Thank you. Dr. Warshaw.

21 CHAIRMAN WARSHAW: You had very succinct remarks.
22 We have the American Association for Laboratory
23 Accreditation.

24 MR. GRANT: I am Chet Grant. As chairman and on
25 behalf of the American Association for Laboratory

1 Accreditation, A2LA, I would like to express our
2 appreciation for the opportunity to convey our comments and
3 recommendations on this important issue.

4 My comments today will be focused, however, on
5 laboratory accreditation.

6 By way of background, I am superintendent of the
7 Materials Engineering Laboratories for the General Motors
8 Engine Division in Flint, Michigan. Our group there is
9 responsible for the materials engineering and testing needs
10 for both products and processes at the Flint site.

11 Many of you here may know of A2LA. For those who
12 may not, please allow me to briefly describe the
13 associations' activities. A2LA is a non-profit, scientific,
14 membership organization dedicated to the formal recognition
15 of testing organizations which have achieved a demonstrated
16 level of competence.

17 Accreditations are granted to laboratories on a
18 discipline basis for all types of tests, measurements and
19 observations. Our basis for accreditation is found ISO/IEC
20 Guide 25, which is generally equivalent to ASTM E-548. To
21 date, we have accredited 211 laboratories in eight fields.

22 Now I will turn to the A2LA view on this hearing
23 and specifically to a national approach for laboratory
24 accreditation.

25 Currently, staff or members of the board support a

1 number of national and international standards committees
2 related to accreditation and testing. Some of these
3 include: International Laboratory Accreditation Conference,
4 ILAC, Committee Number 3 on laboratory practices where a
5 member of staff serves as chairman of the task group on use
6 of computer acquired data.

7 We also participate in the ASTM Committee E 36
8 where again member of staff is chairman. We also
9 participate in the ANSI Certification Committee and also in
10 the Department of Commerce Industry Functional Advisory
11 Committee on standards and testing and certification.

12 We also continue to aggressively pursue formal
13 recognition agreements with both domestic and international
14 systems.

15 There are, by some accounts, in excess of 130
16 accreditation systems, both public and private, functioning
17 today in the United States. There is little or no
18 coordination among these systems, in the private sector, in
19 the public sector, or between public and private.

20 Many systems duplicate other accreditation
21 schemes. Some are narrow in focus, arising out of a
22 specific need for resolving problems facing industry or
23 government.

24 Those who inquire, find that locating and
25 tracking, who does what, can be time-consuming, incomplete

1 in satisfying needs, or even inaccurate. Often industry,
2 associations, government agencies, and individuals do not
3 understand laboratory accreditation and its benefits.

4 Thus, they may not always know what system might
5 serve their needs best. Complicating this is the manner in
6 which the accrediting body is operated, and I will call that
7 the process, and the basis for structuring its service, the
8 product, are based.

9 There are standards upon which to base both the
10 process and the product. Some systems, such as A2LA, find
11 their base in national and international standards, while
12 others are rooted in narrower, specific, industry or
13 governmental standards.

14 It is likely that lack of confidence in another
15 system's ability to address what is considered "my area of
16 expertise," is also at work here. This can and does lead to
17 much variability and cost for users of laboratory
18 accreditation. All of this suggests that we in the U.S. are
19 not using our resources as effectively as we might.

20 Certainly, the view we present to the
21 international community on accreditation matters is not a
22 clear one. The fact that domestic systems, private and
23 public, do negotiate agreements on an international scale
24 must leave them wondering if anyone is in charge.

25 Consider just the European community interface for

1 the U.S. The existence of 130 plus or more independently
2 acting accreditation systems creates a dilemma for the EC.
3 Which ones will the European nations choose to negotiate
4 with?

5 Each U.S. system must be assessed relative to
6 their basis of operation, capability, and general acceptance
7 within the U.S. EC 92 presents us with an opportunity, and
8 perhaps as one of my colleagues reminds me, a mandate to
9 develop a more coordinated and focused approach to
10 accreditation in the United States. Before we can act to
11 change, we need to ask ourselves why this condition exists
12 for the United States.

13 Perhaps lack of interest, lack of knowledge,
14 shortage of funds, or no common focus to date are all
15 factors. In my opinion, the underlying cause is a lack of
16 trust and a lack of teamwork.

17 Dr. W. Edwards Deming, noted management consultant
18 and educator, teaches us that a new method of leadership
19 must be adopted in this country. This includes not only
20 business and industry, but also government.

21 In some of his 14 points, Dr. Deming urges us to
22 constantly strive to drive out fear, eliminate waste,
23 institute modern methods of training, continuously improve
24 our processes, breakdown barriers between groups, and create
25 a constancy of purpose for improvement of products and

1 services.

2 He is telling all of us to empower our people to
3 participate in the decision-making and to communicate. We
4 are talking about a process here today that will produce a
5 service as its product. In order to be successful, the
6 ultimate customer must be defined and then satisfied. We
7 must not satisfy only ourselves.

8 If we proceed ahead from today as normal, we will
9 undoubtedly create, in SCUSA, another bureaucratic agency
10 that isn't needed. It will require more taxpayer dollars to
11 design and implement, and waste more U.S. resources.

12 Eight years ago, in December 1978, 30
13 representatives of government, industry, professional
14 societies, standards-writing bodies, testing laboratories,
15 and consumers created and publicly endorsed a U.S. National
16 Policy on Standards.

17 This committee, NSPAC, believed this national
18 policy on standards would create an environment in which
19 "The nations public and private standards capability could
20 be effectively, economically, and equitably used on behalf
21 of the national interest."

22 While the National Standards Policy Advisory
23 Committee did not directly address laboratory accreditation,
24 it did suggest that the model developed for U.S. standards
25 could apply to testing, certification and laboratory

1 accreditation.

2 We in A2LA believe that an Ad Hoc Committee
3 similar to the National Standards Policy Advisory Committee
4 should be established and implemented in order to develop a
5 national policy on laboratory accreditation. This policy
6 would serve as a guide to existing private sector and
7 government organizations in modifying their existing system
8 to meet the needs of the country.

9 The mission of this committee should focus on one,
10 cooperation between government and private sector; two,
11 clear definition of roles and responsibilities; three,
12 establishment of a non-competitive environment between
13 government and private sector.

14 It should also focus on the relationship between
15 the national policy on standards and a national policy on
16 accreditation. It should focus on the private sector
17 strength in providing services in the form of
18 accreditations.

19 It should also include the government strength and
20 focus on that government strength in providing domestic and
21 international recognition and coordination, establish a
22 trusting and participatory environment for all involved
23 parties, and lastly, to define and satisfy the customer of
24 this process.

25 In closing, if the proposal for a standards

1 counsel of the United States of America was drafted to
2 stimulate and motivate all of us to act on an issue long
3 overdue for attention, then the members of this committee
4 are to be congratulated.

5 There is a need to recognize and coordinate
6 laboratory accreditation systems in the U.S., but not in the
7 manner suggested in the SCUSA proposal.

8 Thank you.

9 CHAIRMAN WARSHAW: Thank you, Mr. Grant. Are
10 there any questions from the panel? Mr. Ludolph.

11 MR. LUDOLPH: Your accreditation program is run in
12 a series of sectors. Are many of those accreditation
13 programs for products that need to be tested or certified to
14 a government requirement or a decentral specification?

15 MR. GRANT: Yes, particularly in the area of
16 environmental testing. We are working right now with the
17 Office of Solid Waste to create a program there that will
18 satisfy some of their needs relative to the environmental
19 and the solid waste area.

20 MR. LUDOLPH: So aside from the demands from the
21 private sector, you do get requests from the government or
22 the private sector to develop an accreditation program that
23 responds to testing requirements that come from essentially
24 the government.

25 MR. GRANT: Yes, sir, we do. We recently

1 completed work with the Defense industrial supply center to
2 do just that for metal, and we have an active program for
3 those folks.

4 MR. LUDOLPH: In your experience in that limited
5 application, in your experience, how are the criteria
6 developed for accreditation? Do they come from
7 international systems of quality assurance or testing
8 certification? Do they come from strictly the government's
9 essential requirements, or do they come from your
10 organization and your manufacturers?

11 MR. GRANT: Actually, it comes from a combination
12 of several of those. It all begins with a process, a
13 technical advisory body and it is generally based on, as I
14 mentioned earlier, the basis for the quality systems in
15 laboratories are based on international standards
16 organization Guide 25.

17 That is the generic basis for the program. The
18 specific needs and the testing methodology is then based on
19 either a governmental standard or perhaps an ASTM standard.
20 Again, it could be an international standard depending on
21 the need.

22 MR. LUDOLPH: How does cost come into the request
23 of testing or the cost of quality assurance verification or
24 certification come into the aspect of the designing the
25 accreditation system for the testing certification?

1 My imagination maybe it is an issue in principle
2 but not a practical problem, is that you would have several
3 systems of accreditation for testing applied to one
4 manufacturer who would have to meet several diverse ways of
5 reaching to the performance of the accrediting entity.

6 How would that rationalize as you develop them
7 further?

8 MR. GRANT: Well, of course, one of the things
9 that face us today is the fact that there are both specific
10 and generic-based accreditation systems. A2LA is a
11 generically based process on a disciplined basis as opposed
12 to product.

13 The cost factor comes in and tends to be much
14 higher when you narrow the focus down, if you get down to
15 say accrediting for one specific item, one specific test/
16 Now the laboratory being accredited is likely to see several
17 different systems coming through their facility, thus
18 increasing that cost significantly.

19 If we could develop a process whereby you come in
20 and irrespective of product, accredit the facility to
21 conduct a specific test, be it a tensile test or a
22 spectrographic test or perhaps testing in the biological
23 area, it is less important as to what it is applied to, and
24 thus, affects or I think the cost makes it be a bit lower.

25 MR. LUDOLPH: Do you engage in accreditation

1 systems that would recognize or accredit manufacturers' test
2 facilities or manufacturers' facilities as opposed to third
3 party testing?

4 MR. GRANT: Now, when you say you, do you mean me
5 as a General Motors personnel, or as A2AL because there are
6 some things mixed.

7 MR. LUDOLPH: In your accreditation programs, do
8 you have the ability or have been engaged in refined
9 criteria that would allow manufacturers to test within their
10 own facilities?

11 MR. GRANT: Yes, we have. My own company, as a
12 matter of fact, has recently developed an internal standard
13 for accreditation that is based on ISO Guide 25 again, and
14 has the freedom within it to utilize third party systems as
15 well as our own approach, if we choose to. That is based on
16 business decisions.

17 MR. LUDOLPH: Do you see a trend in your
18 experience with accreditation systems toward third party
19 testing or self-certification, or as it were, testing within
20 the facility?

21 MR. GRANT: With the limited experience in my own
22 industry and with some additional experience in others, I
23 believe the trend is towards a third party approach, simply
24 from resource availability perspectives. Not everyone has
25 the people nor the time these days to put a force together

1 to go out and assess laboratories.

2 We have a number of activities with folks like
3 Shell and Exxon where we are actually doing the assessments
4 for programs they had started.

5 MR. LUDOLPH: Do you also accredit quality
6 assurance programs?

7 MR. GRANT: No, we do not. The closest we get to
8 that is in calibration-type laboratories.

9 MR. LUDOLPH: Thank you.

10 CHAIRMAN WARSHAW: Mr. Donaldson.

11 MR. DONALDSON: Mr. Grant, I am mindful of your
12 recommendation that a group be constituted that would
13 produce the equivalent of the National Policy on Standards
14 that was done 12 years ago, and this group should in fact
15 work to produce a national policy on testing, certification,
16 accreditation, what-have-you.

17 One of the things that concerns me in the
18 constituting of such a group would be relatively easy to
19 bring some people to this group, being those who are the
20 testing laboratories or those who may be concerned with
21 running the accreditation programs themselves.

22 However, I think we would have missing from that
23 group one of the major parts of the community and that would
24 be those who represent the acceptance bodies. I think we
25 heard Walter Poggi say yesterday that the problem is, in

1 part, with those who would rely on laboratory accreditation.
2 If we are to come up with a national policy, we need to be
3 able to attract to the table those that rely on laboratory
4 accreditation.

5 I wonder if, in your suggestion, you have any
6 sense of how we might do that?

7 MR. GRANT: Specifically today, I cannot, but it
8 is rooted in something I said earlier in that, and those
9 that rely on accreditation are one of the customers of such
10 a process, if I can use that analogy.

11 There is going to have to be -- I alluded to this
12 earlier -- there is level of education that must be
13 performed here in order for folks to truly understand number
14 one, that accreditation even exists in some sectors. That's
15 part of the problem.

16 Once done, and we have had experience with this in
17 A2LA, as we put on educational programs and seminars about
18 laboratory quality assurance, people then begin to realize
19 the benefits of such a process and what it can do for them
20 in raising a level of confidence, so part of its lies in
21 educating and exposing this to the appropriate users of
22 accreditation.

23 That may even have to proceed to full development
24 of such a committee as we are talking.

25 MR. DONALDSON: Because I think, if it is to have

1 an effect, I think we have to include all members of the
2 community.

3 MR. GRANT: I agree with that.

4 CHAIRMAN WARSHAW: Thank you, Mr. Grant. Thank
5 you, Mr. Johnson, we very much appreciate your contributions
6 here today.

7 MR. JOHNSON: Thank you.

8 CHAIRMAN WARSHAW: And again, the record is open
9 until June 5th, should you wish to provide additional
10 comments.

11 MR. GRANT: Okay, thank you.

12 CHAIRMAN WARSHAW: I would like now to call the
13 next three presenters -- Jim Mayben, Mr. Simmons of the
14 National Conference of Standards Labs, and Mr. Moran of the
15 American Society for Nondestructive Testing.

16 (Pause.)

17 CHAIRMAN WARSHAW: Mr. Mayben, we'd appreciate
18 your comments.

19 MR. MAYBEN: Thank you Mr. Chairman. Good
20 morning. I'm James E. Mayben, Director of Product Assurance
21 for the Fort Worth Division of General Dynamics Corporation.

22 I'm testifying today on behalf of the Aerospace
23 Industries Association's Quality Assurance Committee and the
24 National Security Industrial Association's Quality and
25 Reliability Committee.

1 The AIA is an organization composed of 53 major
2 aerospace and manufacturing companies; as well as for the
3 defense industry. The National Security Industrial
4 Association is comprised of more than 450 member companies,
5 also serving the aerospace and defense industry.

6 The National Contractors Accreditation System,
7 referred to as NCAS, was developed as a joint project
8 between the AIA and NSIA on third party certification
9 starting in 1985.

10 Mr. Chairman, I request that my written testimony
11 previously submitted be included in the proceedings of this
12 hearing as I'll not be covering all of it this morning.

13 CHAIRMAN WARSHAW: It certainly will.

14 MR. MAYBEN: As well, I do have some additional
15 written testimony to provide.

16 NCAS is a third party system to accredit
17 contractors, OEMS, to qualify products and/or services. The
18 contractor may provide a service such as nondestructive
19 testing or a product such as fuel sealant. Cost benefits
20 are certain to accrue and product or service quality
21 improvements will be a beneficial outfall.

22 The need for an approach for contractor
23 accreditation and product qualification/certification has
24 long been recognized. The Department of Defense (DOD) and
25 the private sector began actively pursuing a national

1 contractor approval system -- that is, non-government
2 sponsored, industry supported and government endorsed in
3 early 1985.

4 In 1986 the DOD and NIST sponsored an Executive
5 Forum on National Recognition of product certification
6 programs. This forum which was well-attended by executives
7 from both the public and private sectors began a spirit of
8 cooperation between industry, DoD and the non-government
9 standards bodies which continues to lead toward the
10 formation of a U.S. National Certification system.

11 Organizational efforts began mid-1986 with the
12 major aerospace and defense contractors, AIA/NSIA/EIA,
13 military services, the office of the Assistant Secretary of
14 Defense, and certain non-government standards bodies taking
15 the lead.

16 In the past three and a half years, more than 70
17 industrial firms, 11 DOD and government agencies and 7 non-
18 government standards bodies have become involved in planning
19 and implementing four pilot programs aimed at proving this
20 concept and developing workable administrative schemes for
21 industry-wide application.

22 The efforts have continued to grow to the point
23 now where there are three different national contractor
24 accreditation programs involved in five families of widely
25 diverse commodity areas encompassing 10 pilot product

1 lines. These programs are known as NADCAP, FACX, and NECQ.

2 NCAS is the name adopted for the totality of all
3 the third party accreditation/certification programs
4 currently being developed for the aerospace and defense
5 industry.

6 A National Oversight Committee was formed November
7 1989 and currently consists of 28 Non-Government Standards
8 Bodies, NGSB's, industrial organizations, and government
9 agencies. The NOC provides a forum for the direction,
10 development and accreditation of new national system
11 programs, and periodic assessment of ongoing programs
12 concerning conformance with appropriate standards,
13 regulations or specifications.

14 NCAS, as the national umbrella system, currently
15 consists of NADCAP, FACS, and NECQ, each of which has a
16 different third party organization for program
17 administration, and a different national standards body for
18 commodity and program standards.

19 The National Aerospace and Defense Contractors
20 Accreditation Program, NADCAP, was formed in mid-1986 with
21 SAE as the third party organization to determine the
22 approach, funding, and general merits of a third party
23 accrediting system for producers.

24 Two pilot commodity areas were chosen which have
25 almost universal usage throughout the aerospace and defense

1 industry. More recently, three other pilot programs were
2 added.

3 As a result of this pilot program's success, the
4 fully operational NADCAP System has a targeted
5 implementation date of July 1990 for Non-destructive
6 Inspection suppliers and the aerospace sealant
7 manufacturers.

8 Other commodities will be phased into NADCAP as
9 their pilot programs are completed.

10 The Fastener Accreditation/Certification System,
11 FACS, using the third party approach uses ASME as the third
12 party organization. The fastener program will not only
13 encompass the manufacturers , it will also include very
14 rigid controls for distributors. Go-ahead is planned for
15 the second quarter of 1990.

16 The NECQ, National Electronic Component Quality
17 Assessment System, was developed to provide product
18 certification for electronic piece parts. The Underwriters
19 Lab, UL, is the third part inspectorate and EIA, Electronic
20 Industries Association, is the Standards Body.

21 The pilot program on microcircuits was completed
22 in 1989 and provided the basis for manufacturer
23 accreditation and the microcircuit QML, Qualified
24 Manufacturers List. The other component families such as
25 transistors, diodes, etc. are sequentially scheduled and all

1 should be complete by 1993.

2 The cost benefits of the third party NCAS manifest
3 themselves principally in two ways -- reduced product
4 testing and reduced surveys and audits by the prime
5 contractors of the subcontractors.

6 Discussing the issue of funding and utilization of
7 NADCAP, there were some basic rules laid down from the
8 onset; and from the onset, all third party programs under
9 NCAS have been structured to be self-sustaining. Savings
10 accrued by both participants and users will ultimately pass
11 through to DOD and involved government agencies.

12 As long as funding for contractor accreditation
13 remains the primary responsibility of the private sector,
14 DOD and government agency use of NCAS should be based on
15 sound business practices.

16 We believe the government should continue to fully
17 participate in the development of NCAS. The Technical
18 Advisory Group established by the DOD QA Council for third
19 party accreditation in early 1989 has been extremely
20 beneficial to a well balanced program.

21 As a result of the TAG, all DOD elements and
22 involved government agencies such as NASA, FAA, and GSA have
23 endorsed the use of NCAS by government contractors.

24 Looking at the proposal on coordination and
25 accreditation of U.S. certification bodies of the SCUSA

1 hearing, the NIST proposal calls for government
2 accreditation of third party certification programs which is
3 tantamount to the government regulating the
4 accreditation/certification process.

5 This is a direct challenge to the independence of
6 the voluntary accreditation/certification community. It is
7 diametrically opposed to the DOD and other involved
8 government agencies' stated positions to have a National
9 System that is non-government sponsored.

10 The essential elements of the SCUSA proposal calls
11 for governmental centralized control of the voluntary
12 accreditation/certification programs which, it is claimed,
13 would be more efficient and more effective than currently
14 proposed.

15 Private sector organizations and standards bodies
16 such as ANSI are believed to be more effective and efficient
17 to accredit/assess third party certification programs than
18 would be accomplished by a government bureaucracy.

19 The third party certification programs will work
20 much better with government participation, not government
21 control. Therefore, the government should continue to
22 support the National Contractor Accreditation System and
23 its programs.

24 As exemplified to date, government, industry, and
25 the non-government standards bodies have formed a very well-

1 balanced team.

2 We strongly encourage government participation in
3 and use of contract accreditation and product certification
4 programs within the United States.

5 Government support for the NCAS does not mean that
6 the government should take control of the system. Rather
7 the government should continue its support through the
8 participation of experts.

9 The question arises as to whether or not the
10 government's desire to support NCAS as a voluntary program
11 is high on its priority list. NCAS supports TQM, Total
12 Quality Management, and also the DMR, the Defense Management
13 Report to the President.

14 Those initiatives as well have the potential to
15 save millions of dollars annually. The Federal Government
16 should use NCAS in their procurement activities to
17 significantly reduce their regulatory activities -- reduce
18 the cost of their regulatory ties.

19 The essence of our position is that the Federal
20 Government has a responsibility to participate, use, and pay
21 its fair share of the cost of NCAS short of direct funding.

22 The capability of NIST to provide direct funding
23 dollars should be seriously questioned. At the current
24 time, the Federal Government is running a huge deficit.
25 Everyone is well aware that efforts are underway to find

1 ways to cut that deficit by reducing government spending.

2 NCAS provides great potential for the government
3 to help reduce the deficit.

4 Government participation in the entire third party
5 certification program in the United States is quite low.
6 Likewise, the amount of dollars the government is currently
7 contribution is quite low, compared to industry. Therefore,
8 the government control over the process should come only
9 through its participation with a contribution of a fair
10 share of the expenses for the running of the program, as is
11 the case with industry.

12 Conclusions and recommendations: AIA and NSIA
13 believe NCAS should be non-government sponsored, industry
14 supported, and government endorsed. To accomplish this
15 goal, it is not necessary to create a governmental
16 bureaucratic structure.

17 As NCAS develops and gains national recognition,
18 we will also seek international reciprocity and recognition
19 with the European Community. We urge the government to
20 continue to work with the private sector in this cooperative
21 effort.

22 I would be happy to answer any questions you might
23 have at this time. Thank you for your attention.

24 CHAIRMAN WARSHAW: Thank you Mr. Mayben. Mr.
25 Donaldson.

1 MR. DONALDSON: Mr. Mayben, I have two questions:
2 First, I was trying to listen relatively carefully to what
3 you were saying and I could not discern from your remarks
4 what the implications were of your program for international
5 trade except in your conclusion you did bring into what you
6 said a reference to the European Community. I don't know
7 what to relate that back to.

8 I understand the motivation of your program is to
9 bring better efficiency within the system within the United
10 States, and in that clearly better efficiency is always
11 better for competition. But what direct effect does your
12 program have for international trade?

13 MR. MAYBEN: One of the things that we adopted
14 when we started the program is that we wanted to be able to
15 learn to crawl before we walked, and walk before we ran.

16 Just as Mr. Johnson indicated, the electronics
17 industry is dying a slow death in the United States. Right
18 now the main support in the balance of trade between us and
19 the European Community, really the world, is in the civil
20 aviation area in our commercial aircraft manufacturing.

21 The F-16 that General Dynamics manufactures has 17
22 countries using that aircraft. They are all on a co-
23 production offset supplier basis so that the involvement of
24 the European Community already in the aerospace industry is
25 very immense.

1 We know that the race that Japan is putting on and
2 the other European aircraft manufacturers, is to go capture
3 that last stronghold that the United States has relative to
4 a major part of our balance of trade payments.

5 So what we want to do -- long term approach -- and
6 we've already been working the last year and a half with the
7 ECMOCERT, and that is the association of the European
8 aerospace manufacturers, specifically their representative
9 from Aero Speciale, and they are putting in a specification
10 program for those nine European countries and we have been
11 working with this individual and with ECMOCERT for this year
12 and a half to make sure that we're inter-trading all of our
13 standards and specifications and requirements as they're
14 developed under NCAS, to make sure that what they put into
15 their program, we will have a basis for reciprocity.

16 To that end, we do have a meeting scheduled late
17 August with the ECMOCERT representatives, the British
18 restoration program in London where we will pursue the basis
19 for such reciprocity.

20 The EC 92 is a very, very key element in the
21 aerospace industry. The DoD recently recognized this by
22 adopting the ISO Standards 9000 through 9004, the quality
23 assurance standards, to replace United States Military
24 Standards MilKey 9858(a) and Milot 45208(a).

25 And already there have been companies that have

1 been responding to RFP's in Europe to these ISO Standards.
2 Since we do not have a nationally recognized certification
3 program in the United States for contractors, not only to
4 ISO Standards but to no standards, then there had to be a
5 kind of real hurry-up-type deal with the local government
6 agency -- the DCAS representative -- to come up with a
7 letter to say that this U.S. manufacturer did indeed meet
8 the equivalent requirements of the ISO Standards.

9 So we're very rapidly wanting to come up with our
10 system as it grows to where we can then have reciprocity
11 with the Europeans so that we can provide a cost-effective
12 level playing field when we actually start trading in EC 92.

13 MR. DONALDSON: Thank you. My other question
14 pertaining to your introductory remarks when you were
15 introducing the NCAS program, if I could add a little bit to
16 the alphabet soup, I don't think I detected in your remarks
17 mention of ECCB.

18 I wondered what the relationship of the ECCB to
19 the NCAS System is?

20 MR. MAYBEN: The ECCB is the Electronics Component
21 Quality Assessment Board. That is the Board that really
22 directs the NEACQ, the National Electronics Component
23 Quality Assessment Program.

24 So under the umbrella organization, they really
25 are supporting the NCAS as one of the third party programs.

1 MR. DONALDSON: So that means then that the NCAS
2 will be -- is in the position of accrediting the ECCB as an
3 organization, or how does that work?

4 MR. MAYBEN: Well, remember the ECCB is just a
5 Board. It is the administration board for NEACQ.

6 MR. DONALDSON: Right, but it's the responsible
7 party.

8 MR. MAYBEN: Yes. It would -- the NCAS would
9 actually accredit the NEACQ to the appropriate national
10 standard which right now happens to be the one proposed by
11 DOD and the one that NCAS is working towards with ANSI as
12 ANSI's Z34.1 and that's where that would ultimately happen.

13 MR. DONALDSON: Thank you.

14 CHAIRMAN WARSHAW: Mr. Ludolph.

15 MR. LUDOLPH: Mr. Mayben, I was struck by the
16 responsiveness of your program to the procurement needs and
17 the demands of the various layers of suppliers to be more
18 efficient, or at least cost-responsive.

19 Do you see this program -- I was also struck by
20 the fact that this is a certification program for
21 procurement within DOD -- do you see this program moving
22 from the procurement sector in aerospace to being adopted by
23 the FCC for their certifications with civil aircraft?

24 And if you do, how would the FCC certification
25 programs have to be changed, or would your program have to

1 be changed to conform to the safety requirements in the FCC
2 program? FAA program.

3 MR. MAYBEN: Okay. I was going to say I wasn't
4 familiar with FCC.

5 MR. LUDOLPH: I can't keep track of the alphabet.

6 MR. MAYBEN: I am familiar with FAA and we have
7 been closely working with FAA.

8 As a matter of fact, they laid out eight specific
9 areas which the NCAS program would have to meet to make sure
10 that the production approval holders, of which there are
11 1400 currently under FAA, would have the quality manual and
12 the quality systems and the quality procedures to interface
13 with the third party program, would line it up to where it
14 would meet all the FAA requirements.

15 So we can work that very rigidly. We now have
16 agreement on going forward with those. As a matter of fact,
17 due to that initial work with FAA, that has formed a basis
18 for all the original equipment manufacturers to go design
19 their internal quality programs to then start bringing in
20 the use of the third party programs for their procurement
21 and control activities of their sub-suppliers.

22 CHAIRMAN WARSHAW: Thank you, Mr. Mayben.

23 MR. MAYBEN: Thank you, Mr. Chairman.

24 CHAIRMAN WARSHAW: I would now like to move to the
25 next panelist, Mr. Simmons of the National Conference of

1 Standards Laboratories.

2 MR. SIMMONS: Thank you, Dr. Warshaw and members
3 of the panel on improving U.S. participation in
4 international standards activities.

5 Is this on? Okay.

6 CHAIRMAN WARSHAW: Can you hear him?

7 MR. SIMMONS: I am President of the National
8 Conference of Standards Laboratories. I am employed by
9 SVERdrup Technology Incorporated as the director of
10 technical services at the National Aeronautics and Space
11 Administration, NASA, at John C. Stennis Space Center in
12 Mississippi.

13 I am here today on behalf of the National
14 Conference of Standards Laboratories.

15 The NCSL is an organization of over 1100
16 laboratories throughout the world, but concentrated in the
17 United States. These laboratories range in size from less
18 than ten individuals to in excess of several hundred.

19 Our purpose is to foster cooperative communication
20 in the solution of the common problems of these types of
21 laboratories.

22 As an organization of organizations, our members
23 include laboratories in manufacturing industries, aerospace,
24 electronics, biomedical, energy, automotive,
25 telecommunication, in government state weights and measures,

1 DoD, NASA, in educational institutions and others having
2 interest in measurement science.

3 Events in Eastern Europe and the impending changes
4 in the west, EC 92, create challenges for the U.S.
5 economically and technically.

6 The role of standardization laboratories in
7 minimizing the potential for non-tariff trade barriers will
8 take on added significance particularly for us and for our
9 relationship with the European Economic Community, EEC.

10 Development of measurement services and providing
11 access to those services are among the aims of this
12 meterological organization.

13 When our less centralized approach to
14 disseminating the national standards of measurement and the
15 reliance on a single national laboratory is contrasted with
16 the Europeans' more officially hierarchical structure and
17 emerging multi-national, multi-laboratory capability, in
18 this regard, it is clear that competition in the calibration
19 and standards arena will be heightened.

20 For many years, most of the EEC countries in
21 Europe have had agreement of their calibration programs, due
22 to the fact that they have a full blown laboratory
23 accreditation system.

24 In the past and the present, there are U.S.
25 manufacturing companies that have had problems selling their

1 products in Europe since the U.S. does not have a similar
2 way of formally recognizing calibration services.

3 With 1992 and common Europe approaching fast, U.S.
4 companies could find themselves further behind. What will
5 the DOC do to assist these U.S. corporations is the question
6 we ask.

7 There are new competitors from around the world
8 that are springing up and challenging U.S. manufacturers at
9 home and abroad. This is evidenced in the automotive field
10 as well as the electronic and computer industry.

11 What and how will U.S. industry compete with this
12 continuing invasion of high quality products from abroad?
13 Import taxes and embargoes are not the answer. We need new
14 innovated research. We need government assistance that
15 encourages these programs together with standards and
16 calibration that will support them.

17 Improved compatibility of the national standards
18 among all nations involved in mutual trade or other common
19 endeavors are needed. NIST is required to not only maintain
20 the United States National Standards and provide the means
21 and methods for making measurements consistent with these
22 standards, but also to assure the compatibility of United
23 States National Standards with those of other nations.

24 This compatibility of measurements is an essential
25 base for fair and equitable trade and the recognition and

1 promotion of quality products.

2 At present, the United States has a limited number
3 of agreements with other nations for a small number of
4 measurement units and these agreements are in the form of
5 reciprocal statements of recognition of the equivalence of
6 national standards for a specific unit.

7 These agreements describe the degree of
8 equivalence, the estimated uncertainty, and the relationship
9 to the SI unit.

10 Continued lack of complete and current information
11 on the compatibility of measurements between the United
12 States, other countries, and especially the European
13 Community, will limit the ability to develop effective
14 international paper standards and limit international trade
15 by acting as a technical barrier and by increasing the costs
16 of overcoming this barrier.

17 The effects are most noticeable in areas involving
18 high technology and where quality improvements are limited
19 by measurement accuracy.

20 It is recommended that NIST increase its
21 activities to develop and maintain compatible national
22 standards with other nations and provide the means to
23 recognize the use of national standards of other countries
24 when no United States national standards exists.

25 I would like to thank you, Dr. Warshaw, for giving

1 me the opportunity to talk to you today on the U.S. role in
2 international standards activities and we are interested in
3 the conclusions that will be considered by your panel.

4 The NCSL has the ability to disseminate vital
5 timely information to its members. We are at your disposal
6 to continue to stimulate dialogue on this subject.

7 If we can assist your panel in any way on this
8 subject, please feel free to call on us. Thank you again
9 for allowing us to participate.

10 CHAIRMAN WARSHAW: Thank you, Mr. Simmons, for
11 presenting the NCSL's views. Are there any questions from
12 the panel? Mr. Donaldson.

13 MR. DONALDSON: Mr. Simmons, just to make sure for
14 the record purposes, when you are referring to national
15 standards, I presume you are referring to physical and
16 reference standards.

17 MR. SIMMONS: Yes.

18 MR. DONALDSON: Thank you.

19 CHAIRMAN WARSHAW: Okay. I want to thank -- oh,
20 one more.

21 MR. DONALDSON: I think I might have one other
22 question.

23 CHAIRMAN WARSHAW: Oh, go ahead, Mr. Donaldson.

24 MR. DONALDSON: I would like to ask Mr. Simmons,
25 as I asked an earlier speaker, if you could submit for the

1 record some specific cases -- not necessary now -- but some
2 specific cases that you are alluding to where measurement
3 difficulties here, the absence or the failure to have a
4 national standard, has made trade difficult with European or
5 other foreign countries.

6 If you could submit those in writing for the
7 record, some of those specific cases would be useful to
8 back-up your observation. Thank you.

9 MR. SIMMONS: We will do that. About a third of
10 our members have said that they would have difficulty, but I
11 had difficulty today coming to you with a position on this
12 subject, and coming up with specific examples on this.

13 MR. DONALDSON: If you could, it would be
14 especially helpful because, as I mentioned earlier, one of
15 our responsibilities has been to examine allegations of
16 trade problems. While we can make general statements, our
17 case is much better and can be made much stronger where we
18 can cite specific cases.

19 In the absence of those specific cases, it makes
20 either representing the United States abroad more difficult,
21 or coming up with a basis for change here more difficult.

22 Thank you.

23 MR. SIMMONS: Thank you.

24 CHAIRMAN WARSHAW: Thank you. I apologize, Mr.
25 Moran, I realized this being the last grouping, presenters

1 under the grouping on laboratory certifiers and related
2 matters, I did include three on the panel.

3 So you have the anchor position, Mr. Moran, the
4 American Society for Nondestructive Testing.

5 MR. MORAN: And I noticed I was just before the
6 break so I knew I had to make it brief.

7 (Laughter.)

8 MR. MORAN: Thank you, Dr. Warshaw.

9 CHAIRMAN WARSHAW: You are okay. We are a little
10 bit ahead of schedule, having had one cancellation.

11 MR. MORAN: Good morning, ladies and gentlemen. I
12 want to thank you for this opportunity to present the
13 American Society for Nondestructive Testing's position on
14 the need for an improved and more unified United States
15 approach towards the development of standards in the
16 international arena.

17 As a way of background, I am employed by Public
18 Service Electric and Gas Company in the research and testing
19 laboratory in Maplewood, New Jersey. I am also the
20 president of the American Society for Nondestructive
21 Testing.

22 ASNT is predominantly a volunteer driven
23 professional organization with approximately 10,000 members
24 engaged in the engineering discipline of nondestructive
25 testing.

1 In the area of standards development, ASNT's
2 mission includes the development of personnel qualification
3 and certification standards. We are active in ISO in this
4 area, and we formulate the U.S.A. position for ANSI through
5 an ASTM TAG.

6 As a comment for the record, we have been placed
7 on the agenda with laboratories, certifiers, etc. I believe
8 ASNT more rightly should be grouped with standards
9 developers and professional societies.

10 Perhaps when you publish these proceedings, if
11 these groupings are maintained, our testimony could be
12 included with the proper group.

13 As a matter of interest, in the 1960's, ASNT
14 developed Recommended Practice SNT-TC-1A for the
15 qualification and certification of nondestructive testing
16 personnel. This recommended practice has been adopted by
17 several codes and standards groups in the U.S., including
18 the ASME Boiler and Pressure Vessel Codes, and is in wide
19 usage today particularly in the nuclear industry. It is
20 also referenced in many military standards.

21 On the international scene, SNT-TC-1A became the
22 model for many other countries to develop their own national
23 NDT personnel certification standards. In fact, it is the
24 single most widely quoted and referenced NDT personnel
25 certification document in the world.

1 Last year ASNT completed the work on a new
2 consensus standard for PQ&C and this is for NDT personnel.
3 This standard has been submitted for approval as an ANSI
4 standard. We use the canvas method. We are also presently
5 developing a system for the accreditation of NDT programs.

6 Since the late 60's, ASNT has been involved with
7 the international harmonization of NDT personnel
8 qualification and certification programs. These efforts
9 have been centered in ISO. The U.S.A., that is to say,
10 ASNT, held the secretariat of ISO Technical Committee 135,
11 but gave it up to the USSR, quite frankly, because in the
12 mid-70's there was not a lot of interest here in the U.S. to
13 support our efforts.

14 The formation of Subcommittee 7 on personnel
15 qualification was initiated by the U.S., again, ASNT, and we
16 held the secretariat, but relinquished it to Canada, again
17 due to the lack of support here in the U.S.

18 The U.S. is in a very weak position in the
19 international standards arena because, alone amongst the
20 major industrialized nations of the world, the U.S. provides
21 virtually no centralized support for American participation
22 in ISO technical activities.

23 Hence, American efforts to achieve international
24 standards which are consistent with the best domestic
25 practices frequently fail. A volunteer society like ours

1 cannot fill this immense gap alone. We need the support of
2 others as well as the support of the government.

3 We believe in the voluntary standards development
4 process in which all participates have an equal voice. It
5 must not be dominated or directed by any special interest
6 group or by the Federal Government. However, we need the
7 support of the government.

8 For example, we need the government, in
9 particular, the Department of Commerce, to promote the use
10 of U.S. standards. The government needs to market our
11 efforts and to use its influence with foreign governments to
12 promote U.S. interests.

13 We could also use tax relief related to our
14 international standards development efforts. Why not use
15 this as an incentive to demonstrate government support?

16 The off-cited rationale for not providing
17 government support is that industry should support these
18 efforts because industry is the potential beneficiary. This
19 rationale is faulty because American industry, by and large,
20 has not been cognizant of the process of standardization,
21 its benefits, or its role in trade.

22 Even among enlightened companies, support for
23 standardization activities is often available only for
24 standards that pertain directly to the companies' own
25 products; and this neglects support for the test method

1 standards, for personnel qualification and certification
2 standards, for laboratory accreditation standards, and the
3 like, without which product standards can accomplish little.

4 In order to achieve a level playing field in
5 international trade -- and we believe this is crucial to the
6 nation's economy in the 1990's -- it is mandatory that the
7 government, industry and societies like ASNT support
8 international standardization activities. It is the entire
9 nation, and not just the industrial sector, that will
10 benefit.

11 You have suggested that a U.S. organization
12 similar to the Canadian Standards Council be formed. I'm
13 not sure we need yet another governmental entity to provide
14 assistance as much as we need government to properly support
15 the efforts presently underway.

16 It would seem that entities presently exist within
17 the government, within industry, and within technical
18 organizations like ours that, if properly focused, and with
19 proper long-term incentives, would promote the use of U.S.
20 technology worldwide.

21 With the increased attention being shown here in
22 the U.S. with EC 92, and with the rapid changes, and
23 opportunities, I might add, taking place in both Eastern
24 Europe and Asia, the importance of international standards
25 is finally becoming evident to many who in the past just

1 didn't care or who just considered the short term.

2 ASNT applauds your efforts to seek better ways to
3 provide international harmonization of our standards. This,
4 in turn, will benefit U.S. industry and the U.S. economy.

5 As we all know, the U.s. must maintain its
6 leadership position in the world marketplace. The active
7 cooperation and support of government together with that of
8 industry, working toward established and clear long range
9 goals while harnessing the full energy of the voluntary
10 standards development system is what is needed to position
11 us for the 90's and beyond.

12 Thank you for this opportunity and thank you for
13 taking this initiative to address this issue. I have some
14 copies of the written testimony I will leave here.

15 CHAIRMAN WARSHAW: Please do. Thank you, Mr.
16 Moran. Are there any questions from the panel? Mr.
17 Donaldson.

18 MR. DONALDSON: Mr. Moran, I would be interested
19 if you would be able to take a minute to characterize the
20 affiliations of your membership. You mentioned, I think,
21 11,000 members, or 10,000 I guess you said, 10,000 members.
22 What is the nature of their organization affiliations?

23 MR. MORAN: We encompass individuals ranging from
24 technicians to Ph.D.'s.

25 MR. DONALDSON: No, I'm sorry, I meant the type of

1 organization.

2 MR. MORAN: Okay, well, that comes all the way
3 from radiographic testing companies that are working on
4 pipelines, all the way up to universities and professors
5 that are teaching materials on nondestructive testing.

6 It is a broad spectrum across all industries,
7 predominantly in the private sector.

8 MR. DONALDSON: All right, let me rephrase my
9 question a moment.

10 Typically, we have heard both yesterday and
11 previously that representation of national interests abroad
12 is more easily done when you come from a larger company, and
13 that when you are either representing yourself as an
14 individual which typically your university members would be
15 doing, or from a small firm such as some of the laboratories
16 that we've heard from, the challenge for international
17 representation strictly from a financial and time point of
18 view is rather great.

19 In hearing about your reference about past loss of
20 interest or decreasing of interest, I wondered if this
21 reflected -- and I am not trying to put an answer in your
22 mouth -- but was that the nature of the affiliation of these
23 people, was it a reflection of their personal interests or
24 their organization's lack of interest?

25 MR. MORAN: I think maybe to answer your question

1 a little indirectly, if I may, the participants we've seen
2 in our organization participating in the international arena
3 have specific interests, many times trying to sell
4 internationally -- whether it be services or equipment and
5 so forth.

6 We have had participation from NIST as a
7 representative, but that has been the only government entity
8 and in many cases, many companies that are not involved in
9 international trade, will not support their members because
10 they do not see the direct benefits.

11 It is only those companies that have direct
12 benefits such as involved in the international scene that
13 will support their people to a limited extent.

14 MR. DONALDSON: Have you see any increase in that
15 kind of interest in the last five years?

16 MR. MORAN: Yes, we've seen -- well, I don't know
17 about the last five years, the last year.

18 MR. DONALDSON: That's included.

19 MR. MORAN: Yes, but it has been predominately the
20 last year with the events taking place where people are
21 starting to believe EC 92 will happen and with Eastern
22 Europe and the opportunities in Asia and so forth, we see an
23 interest and more or less, not an active interest. Right
24 now it has been a passive interest. More people are asking
25 questions and seeking information, rather than really

1 getting involved.

2 MR. DONALDSON: Okay, so ---

3 MR. MORAN: So they are more or less trying to
4 position themselves.

5 MR. DONALDSON: It is curiosity at this point.

6 MR. MORAN: Yes.

7 MR. DONALDSON: Rather than commitment.

8 MR. MORAN: Yes.

9 MR. DONALDSON: Thank you.

10 CHAIRMAN WARSHAW: Thank you. Any other
11 questions?

12 Well, if not, I thank the panel very much for
13 their contributions and we will take a break now until 11:00
14 sharp. I would rather take advantage of the time to extend
15 the lunch hour than the break, so please be back at 11:00
16 and if we continue, then we will be able to have an hour and
17 a quarter for lunch.

18 (Whereupon, a brief recess was taken from 10:45
19 a.m. until 11:00 a.m.)

20 CHAIRMAN WARSHAW: Ladies and gentlemen, we
21 apologize for the amplifier system. They have been making
22 some corrections, and they will make some more at lunch.

23 I think we have narrowed it down to one lead wire
24 on a mike and so we are asking people at the podium to share
25 the mike or pass it around.

1 We now will hear from the National Association of
2 Manufacturers as represented by Stephen Cooney. Mr. Cooney.

3 MR. COONEY: All right, thank you, Dr. Warshaw.

4 I would just say that of course I am going to
5 request that my full statement be included in the record. I
6 am just going to summarize it here for the interests of
7 time.

8 Let me just say that the primary issue faced by
9 NAM members today in the issue area of international
10 standards is the problem of EC 92, and that has been well-
11 established I think in these hearings.

12 In 1988, we established at NAM EC 92 task force
13 and concerns over today's subject affect a broader group of
14 U.S. industries than any other aspect of EC 92.

15 An acceleration of the European standards
16 harmonization process should be an encouraging development
17 for U.S. companies doing business in Europe and should
18 facilitate U.S. exports, but a number of concerns have been
19 raised regarding this process.

20 These concerns involve the process of setting
21 harmonized standards within the EC and the establishment of
22 EC-wide testing and certification rules.

23 So my statement today will first focus on the
24 progress made in addressing the concerns raised by U.S.
25 industry in these two policy areas, in response to EC 92

1 developments.

2 Then I will consider whether, from our point of
3 view at NAM -- not a standard-setting organization --
4 whether we need further organizational changes in the United
5 States itself in response to the changing international
6 environment.

7 My overall conclusion, just to anticipate the
8 testimony here, is that at this time we do not need to
9 consider changes to the U.S. standards system, wherein most
10 standard-setting is done on a voluntary basis by industry,
11 and U.S. linkage to international standards is conducted
12 through private sector organizations.

13 This conclusion is influenced by the belief that
14 the EC is also seeking to emphasize the private sector role
15 in harmonizing standards and establishing mutual recognition
16 of testing and certification.

17 First of all, let me look at the standard setting
18 process. During the past year, considerable progress has
19 been made in opening the CEN/CENELEC standard setting
20 process, at least in principle, to non-European bodies.

21 I want to acknowledge that in large part, this was
22 due to the high priority placed on US-EC standards issues by
23 the present Secretary of Commerce, Mr. Robert Mosbacher.

24 An early step to improve transparency was the
25 publication by CEN/CENELEC of a monthly listing of standards

1 projects at all stages of development. This report,
2 however, is extremely skeletal and business users still need
3 further follow-up information from ANSI, U.S. standard
4 setting bodies, from the Commerce Department and EC sources.

5 Secondly, a major U.S. EC agreement of the past
6 year has been the achievement of some form of non-EC access
7 to the standards process itself.

8 In a June 13 letter to all technical committee
9 chairmen, the president of CEN/CENELEC stated that technical
10 committees were to give due consideration to all comments or
11 proposals on standards projects from outside Europe when
12 made through the relevant national member body of the ISO
13 and the IEC.

14 The technical committees were authorized also to
15 hold joint ad hoc meetings with non-European ISO/IEC member
16 bodies.

17 Now, in the U.S. case, this means that access to
18 funneled through ANSI, which is the official U.S. member of
19 both international bodies.

20 ANSI has now established its own office in
21 Brussels to monitor CEN/CENELEC activities and to assist
22 U.S. standards and industry organizations in obtaining
23 information on EC standards developments.

24 In summary, I think we can say that we now know
25 both the general outline of EC standards policy and how U.S.

1 companies and trade associations can gain access to EC
2 standards setting procedures.

3 Unless the EC manifestly and consistently fails to
4 live up to its self-imposed obligations regarding non-
5 European access, the system will probably not change much as
6 the Ec 92 program is implemented.

7 A summary of case histories recently published by
8 ANSI indicates some degree of EC responsiveness to
9 criticisms and complaints from the United States regarding
10 specific products or standards processes.

11 I should also say that the EC itself is currently
12 engaged in a review of its standards policies and that the
13 EC is due to publish a green paper on standards by mid-1990.
14 That should be extremely interesting to us to see how they
15 view how well the system is going into practice and perhaps
16 gives us some room for comment again, on whether we find it
17 adequate from the point of view of U.S. access.

18 With regard to testing and certification, the
19 structure and operation of the new EC system are not yet
20 finished. Here again, considerable progress has been made
21 however. The EC has recognized U.S. concerns and has
22 altered some policy principles to reflect those concerns.

23 With respect to these issues, the EC Council of
24 Ministers took a major step forward on December 21st, 1989
25 by endorsing the Commission's proposed global approach to

1 testing and certification.

2 Through a series of eight modules, this approach
3 purports to provide a comprehensive framework for all the
4 permissible approaches to product testing and certification
5 that will be allowed within the EC.

6 Under the general principal of subsidiary which
7 means basically implementation at the national level, if
8 possible, it is the member states themselves that will
9 notify to the Commission those public or private testing
10 bodies that are to serve as accredited testing and
11 certification agencies.

12 The standards for evaluating and accrediting these
13 agencies will be the new EN 45000 series standards. Now,
14 these standards are based on the ISO/IEC guides on
15 certification and testing which were prepared by ISO's
16 Council on Conformity Assessment and which received
17 substantial input from ANSI's international certification
18 subcommittee.

19 Similarly, in developing standards for quality
20 assurance programs for self-certification by manufacturers,
21 the EC has established the EN 29000 series which is
22 identical to the ISO 9000 series, and thus also to the
23 equivalent ANSI series.

24 So the Nascent EC-wide testing and certification
25 scheme is in fact based on international standards and

1 principles of testing and certification. Testing agencies
2 in some of the more industrialized EC countries already have
3 mutual recognition agreements with non-European bodies such
4 as their U.S. or Japanese counterparts.

5 It is now the policy of the EC that these existing
6 agreements will remain in force pending renegotiation on an
7 EC-wide basis. And under EC policy, EC private sector
8 bodies are free to negotiate any mutual recognition
9 agreements that they wish covering unregulated products.

10 There are three avenues of approach so that U.S.
11 products that are regulated in the EC market can be
12 certified as developing under this program.

13 First is the clearest strategy which is they have
14 products tested in the EC on a non-discriminatory basis by
15 both the GATT Standard Code of 1979 and the agreement
16 between Secretary Mosbacher and Commissioner Bangemann
17 earlier this year.

18 The EC has confirmed that there should be no
19 discriminatory barriers in testing products manufactured
20 abroad. We will see, but that is at least their policy.

21 The second approach is delegation or
22 subcontracting of testing abroad by EC notified bodies.
23 This may be the most efficacious means of maintaining
24 existing mutual recognition arrangements, while the EC-wide
25 testing and certification system is developed, and perhaps

1 over the longer term, in terms of U.S./EC relations.

2 Under this approach, the EC notified body in any
3 member country may delegate testing in non-member countries
4 to recognized and competent local laboratories, while
5 ultimate certification authority rests with the EC notified
6 body.

7 But the details and the conditions of this
8 subcontracting approach have not yet been established.

9 Thirdly, the hardest but most complete way of
10 resolving the issue is negotiation of new mutual recognition
11 agreements at the EC level. Where products are regulated in
12 the EC and covered by voluntary industry standards in the
13 United States, negotiation of such agreement may be pretty
14 difficult.

15 The EC has adopted a modified form of its
16 reciprocity policy. Not only must the technical competence
17 of the non-EC body be assured, but in cases where the
18 community wishes to have its own bodies recognized, the
19 agreements must establish a balanced situation with regard
20 to the advantages relating to conformity assessment for the
21 products concerned.

22 Now, this position is softer than the virtual
23 mirror-image reciprocity that was originally set forth as
24 their policy but it is still tougher than the national
25 treatment standard that we believe would be more

1 appropriate.

2 On the EC side, the concern has been expressed
3 that agreements with one or more U.S. private certification
4 bodies do not guarantee acceptance of EC certifications
5 through the U.S. market.

6 Moreover, the EC may require independent and
7 periodic audits of technical competence of non-EC private
8 sector bodies, as well as requirements of acceptance of
9 financial liability.

10 As for the U.S. side, as an organization, we have
11 not yet endorsed an across-the-board mutual recognition
12 policy. There is concern, for example, among our members,
13 that mutual recognition agreements with the EC would mean
14 broad acceptance of certification from countries not before
15 covered by private mutual agreements, and whose
16 certification system is an unknown quantity in the U.S.
17 market.

18 Now let me look at how we can improve the U.S.
19 response. Finally, there is the difficult issue of the
20 degree to which the U.S. system itself needs to be modified
21 to ensure that U.S. products are not disadvantaged in the EC
22 market, and with respect to other aspects of international
23 standards activities.

24 The NAM position is that we need to improve
25 cooperation between the private and public sectors. We do

1 not, however, need to go as far as establishing a new
2 federal coordinating and accreditation body, on the model of
3 the Standards Council of the USA.

4 Nor do we support the Code of Good Practice
5 proposed by the EC as an amendment to the existing GATT
6 Standards Code. Both of these proposals would in effect
7 increase the government role in international standard
8 setting and harmonization, even though the whole thrust of
9 the recent EC approach is to reduce the role played by the
10 government.

11 The roles played to date by the Commerce
12 Department, the U.S. Trade Representative, and the State
13 Department have been helpful in supporting U.S. industry in
14 seeking to reduce foreign standards as barriers to trade.

15 But there is no evidence yet that we need to
16 change the mix between the public sector and private sector
17 balance in standards, testing, and certification within the
18 United States

19 This does not mean public/private sector
20 cooperation cannot be improved, and I cite in my written
21 statement as an example the problem of the very slow
22 reaction to the Saudi Arabia request recently.

23 So I would just say that because standards
24 decisions will be important in establishing future contract
25 specifications in export opportunities for U.S. companies,

1 as a country we cannot afford anything less than a prompt
2 response based on full government/industry cooperation.

3 CHAIRMAN WARSHAW: Thank you, Mr. Cooney. Are
4 there any questions from the panel? Mr. Ludolph.

5 MR. LUDOLPH: I appreciate the full summary that
6 you have given on the EC 1992 program, and this is certainly
7 a large component of what we are looking at on this panel.
8 I was wondering if I could just expand the realm of the
9 subject by asking you if U.S. business and your member
10 manufacturers feel that during the 90's, or as a result of
11 1992 proposals and as a result of the experience in the
12 80's, that third party testing, that quality assurance
13 systems are on the increase in terms of developing a
14 response on the part of the U.S. manufacturers to delivering
15 quality products as one of the high priorities in the nature
16 of competition here in the U.S. market, if not in the
17 foreign markets?

18 MR. COONEY: I think probably the answer at this
19 point is that it is too early to tell because a lot of this,
20 quite frankly, is being driven by EC 92 and they are, I
21 believe I am correct in saying, they are already behind
22 schedule on adopting standards or directive that have
23 already been adopted and are already supposedly either
24 having entered into force or are going into force in the
25 area of toys, in the area of pressure vessels.

1 They are supposed to adopt 4,000 new standards by
2 the end of 1992, and I think that it is really too early to
3 tell on that because there are a lot of decisions that have
4 to be worked out among themselves. That's a quarter of our
5 export market.

6 So I think -- and the other thing is that a lot
7 will depend on what types of mandates they have to their own
8 notified bodies and what type of mandates they give with
9 respect to negotiation or mutual recognition agreements.
10 That's the other variable there.

11 I guess the real, to sum up my answer, I think
12 people want to change as little as they have to change right
13 now. That's the key, and it is not clear how much we will
14 have to change. When you bear in mind that the European
15 community sells \$90 billion, more or less, of exports here
16 and we sell \$90 billion there, they don't want to cut off
17 their access to our market, and I think that's one of the
18 reasons they're being reasonable on this.

19 MR. LUDOLPH: Just to follow up briefly, it is a
20 truism, but it has also been said frequently that the
21 Japanese are great competitors, and as a test of their
22 competitiveness, they'll build anything to any
23 specification.

24 If the Europeans invent a specification over the
25 next two or three years, the Japanese will just go ahead and

1 build to that specification and they will install a system
2 in Japan, Inc. that will support a low-cost production to
3 any quality or specification the Europeans can dream up.

4 That should be true, and I would like to know if
5 it is true, in the United States. Does the U.S. intend to
6 support a system as manufacturers, do you see your members
7 supporting a system like the Japanese, that will build to
8 any specification -- if a European specification is adopted
9 by the Los Angeles building code, will the U.S.
10 manufacturers of circuit breakers build right to that
11 specification, just as they will build to that same
12 specification as they sell to the European community?

13 MR. COONEY: That's economically a very complex
14 question. I would just say first of all, my experience at
15 NAM, is that the majority of the small and medium
16 manufacturers who have talked to me, surprisingly enough,
17 have said what we need is advance knowledge of what the
18 standard is going to be.

19 They don't believe they are going to influence the
20 final development of the standard and they just say tell us
21 what the standard is going to be, how do I find out what the
22 standard is going to be and if it is going to be metric,
23 we'll make metric.

24 So the first point I guess I would say, I wouldn't
25 underrate the ability of some of our people to adapt to

1 whatever standards the Europeans are going to adopt anyway.

2 On the other hand, I think the adoption of
3 obviously three difference regional standards -- Japan,
4 U.S., EC -- is self-defeating from the point of view of
5 economic efficiency. I don't think it's the route the
6 Europeans want to go.

7 The final point is with respect to -- there is
8 difference between the U.S. and Japan in this regard also,
9 in the ability to meet the standard. A lot of people have
10 made this point to me lately.

11 The Europeans have said the Japanese don't come in
12 and complain about our standards, why are you guys are
13 complaining? The difference is that the Japanese are
14 oriented to the export market and it has been well-
15 established, I think, by the Europeans, by the Commerce
16 Department -- the barriers that the Japanese use to keep
17 foreign competitors out of the Japanese market through non-
18 tariff barriers.

19 We don't have that in our system, and we have also
20 a very large domestic market which is also open. Just to
21 use a very brief example of cars, the problem that American
22 Car manufacturers have been berated many times for not
23 building better, cheaper small cars. You don't deal with
24 the small car end of the market. That always a marginality
25 in the U.S. market.

1 It is the same for a producer producing a good
2 that may be 10 percent or less of his products are exported,
3 you can't expect him to change the way he manufacturers his
4 whole product for 10 percent of the market on the grounds
5 that maybe somewhere in the 1990's there will be a European
6 community market that is going to be really huge and he
7 should take advantage of that.

8 So I think that's another part of the problem, is
9 that even the very big EC market is always a marginal market
10 from the point of view of most U.S. manufacturers. They
11 have to be guided by what is going to be the basic standard
12 in this market.

13 To ask them to meet a second set of standards is
14 imposing an additional cost on them, whereas since the
15 Japanese are directed primarily by the export market, they
16 will ship to meet that standard, in many cases, more easily
17 than American manufacturers.

18 MR. LUDOLPH: Is there something inherent in the
19 Japanese dedication to quality or to flexible manufacturing
20 or to processing technology that the Europeans are emulating
21 in their proposal for EC 1992 that would emphasize
22 responsiveness to marketplace through quality systems and
23 third party certification that would put the U.S.
24 manufacturer at a disadvantage in its own market?

25 MR. COONEY: No, I don't think it's any of -- yes,

1 I think the U.S. is at an inherent disadvantage against the
2 Japanese, but I don't really think that the key factors are
3 any of the things you listed above.

4 I think the key factor is the ability of Japanese
5 exporters to absorb cost overheads, and they do it through
6 lower profit margins -- well-documented. They do it through
7 much lower cost of capital, also well-documented.

8 I think that's the key difference, so they are
9 oriented towards an export market. If they have to absorb
10 cost overheads to meet that market, they can do it easier
11 than an American manufacturer can.

12 Now, of course, there are differences and one can
13 go back and look at the quality issue and these other
14 things, but I think those are really the key determining
15 issues.

16 CHAIRMAN WARSHAW: Mr. Leight.

17 MR. LEIGHT: You referred to the Saudi Arabia
18 Standards Assistance Program.

19 MR. COONEY: Yes.

20 MR. LEIGHT: Which has just been implemented. It
21 has been implemented with funding from the private sector,
22 voluntary contributions as directed by legislation. In
23 particular, there is a private sector panel made up of
24 representatives of the contributors.

25 Do you think they share your views?

1 MR. COONEY: Well, the only reason I mentioned
2 that program in this was to indicate that we were a little
3 slow -- maybe it was the first time we had such a request --
4 I think we were a little slow off the mark in responding to
5 it, that's all.

6 I think that the companies that I have talked with
7 certainly have shared my views with respect to the comments
8 we made about the SASO issue.

9 MR. LEIGHT: When you say we're slow off the mark,
10 are you talking about ---

11 MR. COONEY: In responding.

12 MR. LEIGHT: Picking up the money.

13 MR. COONEY: Yes, in responding in the sense that
14 we can't go through that type of procedure, I think, and
15 that type of review process each time there is a request
16 from a foreign government where we have a considerable
17 export market, as to help us with standards, give us
18 American standards. That's my point, I think.

19 Now, maybe and I hope that this example will lead
20 to a more expedited practice -- now that we have gone
21 through the wringer one time, hopefully we will have a
22 quicker response the next time around. I mean, that should
23 be kind of an off-the-self request.

24 In our opinion, international department at NAM,
25 as opposed to having to get specific authorization to talk

1 to people about standards.

2 MR. LEIGHT: Do you have any specific mechanism in
3 mind to fund such activities?

4 MR. COONEY: Well, I'm not sure what type of
5 funding would be necessary. I mean, I think that should be
6 a part of the job that you people do here, part of the job
7 that ANSI does, part of the job that other standard-setting
8 bodies in the United States do -- provide information to
9 people off the shelf on what standards do you use in
10 America.

11 MR. LEIGHT: Thank you.

12 CHAIRMAN WARSHAW: Okay, thank you, Mr. Cooney.
13 We appreciate it.

14 Mr. Falk, President of NEMA.

15 MR. FALK: Thank you, Dr. Warshaw.

16 I am Bernard Falk. I'm president of the National
17 Electrical Manufacturers Association, NEMA. Our membership
18 consists of some 630 companies that are engaged in the
19 manufacture of products used in the generation,
20 transmission, distribution, control and use of electricity.

21 Our domestic shipment of such products are in the
22 range of \$70 billion and our exports are in the range of
23 about \$10 billion.

24 This morning I will quickly summarize our written
25 statement which was submitted for the record on March 21st,

1 and I will use the balance of my time to comment or perhaps
2 clarify some of the issues that were discussed in the past
3 day or two at these hearings.

4 In essence, our statement says that our current
5 system for participation in international standards activity
6 insofar as electrical manufacturing is concerned, seems to
7 work reasonably well.

8 Our statement explains the association's role
9 which we consider to be quite active, with 120 delegates
10 that are NEMA funded and with NEMA actively participating in
11 some 40 IEC technical committees and some 50 subcommittees.

12 We stress that participation in this activity is
13 market-driven, as is our standards system in general.

14 With regard to EC 92, we raise certain issues,
15 particularly in the testing and certification area that need
16 resolution before some basic decisions can be made or
17 negotiations that are meaningful are undertaken.

18 In terms of improving the system, we urge close
19 cooperation between the government and the private sector,
20 particularly active involvement in private sector standards
21 activities consistent with A-119.

22 While we don't consider the system to be perfect,
23 or systems to be perfect, we think government input to the
24 private sector will be helpful and I am sure that as a
25 result of these hearings, some recommendations which will be

1 forthcoming will be constructive and will help the private
2 sector.

3 So our basic position is to recognize that the
4 private sector has a tough challenge. We urge the
5 government to aid in this challenge, rather than subvert the
6 challenge.

7 With regard to SCUSA, we haven't really seen
8 anything or heard anything that justifies something a long
9 the lines of SCUSA. We suggest that the author, whoever he
10 may be, perhaps might say SCUSA'm moi, and get back to his
11 original business.

12 (Laughter.)

13 MR. FALK: And in conclusion, as a personal
14 observation, I instruct by the irony of suggesting a
15 centralized bureau with marketplace impact, while the rest
16 of the world, in particular Eastern Europe, is making every
17 effort to get to a market-driven economy.

18 Now let me clarify one or two points and then
19 editorialize on perhaps some other issues that were
20 addressed in the past day or two.

21 Yesterday, I believe the question was raised for
22 Max Rumble of Society of Automotive Engineers about
23 discussions that were held with CEN/CENELEC representatives
24 concerning our relationship with their new European
25 organization for testing and certification.

1 I was party to some of those discussions here at
2 the ANSI meetings last week, and I also had dinner one
3 evening with the Secretary General of CEN and to clarify the
4 record, their suggestion to us was not at this time to
5 attempt to set up a firm relationship or a structure with
6 EOTC simply because EOTC has yet to be formed. It has not
7 even begun to discuss who its managing director will be.

8 It has to get organized, and at such time,
9 presumably, perhaps this summer or early fall, we can begin
10 some meaningful discussions on a perhaps a private sector
11 counterpart or some mechanism here in the U.S. that would
12 meet with EOTC in the private sector area.

13 I again would confine my summary of that
14 conversation to be private sector versus private sector. We
15 did not get involved into the regulated area.

16 On the matter of funding, I thought I would --
17 since there were some questions that were raised as to how
18 various organizations fund their delegates, I thought I
19 should tell you how we fund our 120 delegates.

20 We have a system where product by product, each
21 product section -- and we have some 71 product sections in
22 NEMA -- each product section determines its interest in
23 international standards, and if it is interested in
24 sponsoring the travel expenses of its delegates, it takes a
25 vote. One company, one vote.

1 If two-thirds of the companies vote in favor of
2 supporting the travel expenses of that delegate, we then
3 have all of the companies that are involved in that
4 particular NEMA section pay for the expense of that
5 delegate.

6 The division is done on the basis of sales volume,
7 domestic sales volume, if you will, of each member company.
8 It think one of these days we'll be reviewing that question
9 and looking at total sales volume, both international and
10 domestic and not just domestic.

11 In some instances, we not only pay for travel, we
12 pay salaries, and full-time salaries as well. We have just
13 engaged a retired consultant in the insulated materials area
14 to represent us on committee to handle the secretariat
15 duties of IEC Committee SE 15-C on insulating material
16 testing procedures.

17 We have a former member of our staff who has been
18 engaged as a full-time consultant as secretariat to the IEC
19 Committee on Residential Controls.

20 Now, let me get to a favorite subject of NEMA in
21 the past and today, and that is funding by government for
22 delegates. That has been discussed on and off over the past
23 day or two.

24 From an industry perspective, we are struck by the
25 fact that it is not a good investment for an industry to

1 send a delegate if it is an industry matter. We have
2 difficulty understanding why that burden should be laid on
3 the taxpayer or why, perhaps, our government has better
4 judgment than the industry that is concerned in determining
5 whether there ought to be representation or not.

6 That's not to say that I think another question to
7 look at is a question where safety, health are involved and
8 there are perhaps non-industry experts who are involved, I
9 think that's a question worth reviewing and one that I think
10 would on the agenda between our subsequent discussions
11 between your agency and the private sector.

12 With regard to the tax matter and tax incentives,
13 NEMA has not yet taken a position on this matter. I will
14 give you the burning thought position on it, for what it's
15 worth, and it is my own personal position. I suggest that
16 before supporting tax incentives, the business community
17 consider its views and its stated views with regard to the
18 budget deficit and where tax incentives for standards
19 participation relate to other priorities of the business
20 community such as capital formation, the educational problem
21 in this country, and social problems and so forth.

22 In fact, I would go so far as to say -- to borrow
23 the advice of a well-known Senator in this town who
24 suggested to me one day after I testified on tax credits for
25 lighting fixture on high energy efficiency, why don't you

1 stop playing around with the tax system and why don't you
2 just come in with your hand out and ask for the money and
3 stand on those grounds.

4 So I think the other factor, whether we're talking
5 about funding by government or tax credits, the one question
6 that nobody has discussed yet is what is the quo for that
7 quid?

8 What are the criteria? What are the requirements
9 that our government is likely to set down, which they should
10 set down, in exchange for payment of expenses for delegates
11 at meetings?

12 So with that, ladies and gentlemen, I conclude my
13 brief comments and I will be pleased to answer any questions
14 with regard to our written submission or with regard to our
15 comments this morning.

16 CHAIRMAN WARSHAW: Thank you, Mr. Falk. Mr.
17 Donaldson.

18 MR. DONALDSON: Mr. Falk, since a considerable
19 amount of the discussion we've been hearing for the last day
20 and a half has dealt with the proper role for U.S.
21 Government and private sector cooperation/coordination,
22 what-have-you, I'm interested in hearing your observation
23 with respect to the EOTC that you see it as purely a private
24 sector activity within the European Community.

25 I wonder if you would care to comment on what you

1 would see as its relationship to the governmental structure
2 within the European Community, and how they will afford or
3 carry out the cooperation role there?

4 MR. FALK: Yes, I don't believe that I said I saw
5 it is as a private sector exclusive, non-government
6 involvement activity.

7 Obviously, (a) as I think you know, it is funded
8 somewhat by the European Commission and again, where there
9 is quid, there is going to be a quo.

10 The membership, as I understand it, of the EOTC,
11 will be of the private sector. The European Community
12 presumably will not have any direct involvement in private
13 sector arrangements on non-regulated matters. To that
14 degree, apparently, as the people who are involved in EOTC,
15 have already held out the promise of some sort of perhaps
16 membership or associate relationship for private sector
17 entities in this country, or any other third country.

18 But I think along the way, it's clear to me,
19 certainly based on comments made to me by a representative
20 of the Directorate General Three, John Parnell, if I
21 understood him correctly, that somewhere along the line the
22 Commission expects to use the work of the private sector,
23 and not necessarily to merge the relationship but to use
24 their output with relation to the work its doing with regard
25 to regulated products.

1 Further, it wants the EOTC, whether it's regulated
2 or non-regulated, to set up a system that in some manner,
3 way, shape or form, embraces all of the products used in
4 Europe that are subject to testing and certification by
5 third parties.

6 I think one of the points, if I might add, that
7 we've overlooked that I think has been omitted along the
8 line is the fact that many of us in the business community
9 are very much concerned about the ability of the
10 manufacturer to continue to self-certify.

11 Testing is an expensive cost of doing business and
12 we join those that have been somewhat critical of the
13 European Commission in over-stressing third party testing
14 when it is not totally necessary.

15 CHAIRMAN WARSHAW: Mr. Ludolph.

16 MR. LUDOLPH: The directives in the European
17 Community that bear on the exports of your membership are
18 primarily the low voltage directives, is that right?

19 MR. FALK: Yes.

20 MR. LUDOLPH: Are there requirements for third
21 party testing in the low voltage directive?

22 MR. FALK: Well, the low voltage directives are in
23 a funny status. As you know, those directives were written
24 before the new approach was established.

25 There are testing requirements in existence. We

1 have been advised that to be consistent with the new
2 approach, those directives will be re-written. I suspect
3 re-written in such a manner that they will be less detailed
4 as compared to the present directives which I believe were
5 written in 1973 or thereabouts. It was the early 70's.

6 There are testing requirements in place, but I
7 don't believe -- I haven't heard of it getting to the stage
8 of the CE mark or other marks yet, but there are testing
9 requirements in place.

10 MR. LUDOLPH: The CE mark, if it ever applies to
11 your membership, would be fixed by notified bodies in the
12 European Community that are designated by members state
13 governments, not by the EOTC.

14 MR. FALK: Correct.

15 MR. LUDOLPH: Not by U.S. entities.

16 MR. FALK: Correct.

17 MR. LUDOLPH: And not by the EC Commission. Is
18 there a concern in your membership as to whether the access
19 to the member state designation will be as open as access to
20 test procedures?

21 MR. FALK: Well, obviously the answer is yes.
22 This is one of the question areas that I refer to in our
23 written statement that has to be resolved. The basic
24 question is can arrangements be made that de facto a U.S.
25 manufacturer of electrical products can do one-stop shopping

1 or one-stop testing, if you will, here in the United States.

2 Now, that question has not been answered because,
3 as you know, the Commission has now given an indication that
4 notified bodies in Europe will be privileged to work with
5 third party testing agencies for a limited amount of
6 testing.

7 We don't have a description yet of what the
8 criteria will be to qualify third party testing bodies in
9 this country, and when we do that, we don't have a clear
10 understanding of what they mean by limited testing.

11 Does this mean just certain types of tests? Does
12 it mean all the tests but all the tests but the paperwork
13 finally gets accomplished in Europe? So there is a wide
14 berth of information that has to be resolved.

15 We are not telling our members that the only way
16 they can get an EC mark is to test in Europe.

17 MR. LUDOLPH: The decision of the notified body or
18 the member state government rests on the decision that some
19 entity that tests or certifies is meeting the essential
20 requirements. It is in some ways a subjective decision, but
21 in other ways it is helped by the existence of international
22 and European standards, presumably it also might be helped
23 by the existence of U.S. programs are accreditation systems.

24 There is a presumption that if you meet the EN
25 45000 or EN 29000, that you are complying in many ways with

1 the essential requirements.

2 Can U.S. companies presently meet the EN 29000 and
3 EN 45000 criteria, or would they have to introduce new
4 systems or costs or expenses, investments to meet that?

5 MR. FALK: That's argumentative. I think I'm not
6 so sure I agree with your presumption that if you meet EN
7 29000, you are complying with the requirements. There will
8 be additional requirements besides the mere fact that you
9 seem to have a satisfactory quality control system, which I
10 believe is what EN 29000 directs itself to -- various phases
11 in which a manufacturer's plant can be tested as to its
12 level of quality control.

13 I believe that it is fair to say that U.S.
14 manufacturers in that area should have no difficulty. This
15 is not a strain. I think ISO 9000 originally is not strange
16 to American manufacturers.

17 I think one of the questions is what does that buy
18 you? I think there was an interesting statement made at the
19 ANSI hearing last week by a representative of a well-known
20 international computer company as to perhaps just meeting
21 those standards might be quite misleading in the area of
22 quality by pointing out in discussion the Malcolm Baldrige
23 award that that is just one facet of demonstrating the
24 ability and quality of a company's product.

25 So I think particularly there is some concern that

1 we see in the high tech companies as to whether the usage
2 and application and dependence on EN 29000 and the 45000 for
3 accreditation of testing laboratories gives you what you are
4 ultimately seeking, and that is customer satisfaction.

5 CHAIRMAN WARSHAW: Thank you, Mr. Falk. Thank
6 you, Mr. Cooney.

7 MR. FALK: You're welcome.

8 CHAIRMAN WARSHAW: We will now receive the next
9 presentations from the Chemical Manufacturers Association
10 and the Aerospace Industries Association.

11 Do we have enough seats?

12 (Pause.)

13 CHAIRMAN WARSHAW: Well, first we have the
14 Chemical Manufacturers Association, Mr. Attebery, the
15 spokesperson.

16 MR. ATTEBERY: Thank you, and good morning.

17 CHAIRMAN WARSHAW: Please introduce your
18 associates too.

19 MR. ATTEBERY: I am Ray Attebery. What is that?

20 CHAIRMAN WARSHAW: If you could introduce your
21 associates.

22 MR. ATTEBERY: I will do so.

23 I am director of quality, health, safety
24 environment for Quantum Chemical Corporation.

25 I am accompanied today by Mr. Ralph Taylor in the

1 center, who is manager of technical services, chemical
2 division, Proctor and Gamble, Dr. Warren Pollock on my
3 immediate left, senior staff associate, engineering
4 department, the Dupont Company, and Mr. Bruce McClung,
5 principle engineer in energy systems, Engineering and
6 Technology of the Union Carbide Corporation.

7 We are appearing today on behalf of the Chemical
8 Manufacturers Association where I am the chairman of the
9 total quality council.

10 CMA is the non-profit trade association whose
11 member companies produce 90 percent of the basic industrial
12 chemicals in the United States. CMA does not develop
13 standards, but supplies resources for a number of voluntary
14 standards organizations.

15 The chemical industry has an important stake in
16 standardization. More than 50 percent of our industry's
17 products are defined by standards, or assessed in accordance
18 with standard test methods.

19 In CMA's view, the existing framework for
20 government -- public cooperation on international standards
21 is solid and should not be tampered with. The structure has
22 the potential for an efficient and effective system.

23 We believe that the system would be strengthened
24 by one, harmonizing U.S. and international standards; two,
25 increased government support and participation in the

1 voluntary standards system; three, greater government
2 recognition of international standards; four, establishment
3 of a cooperative program for certification, assessment, and
4 auditing; and five, development of a blue ribbon panel to
5 explore cooperation between government and private industry
6 at the international level.

7 First, CMA supports the concept of harmonizing
8 international standards. With harmonized standards,
9 products enjoy freer movement worldwide, technical
10 innovation is enhanced, manufacturing and distribution
11 efficiencies are realized, and important health, safety and
12 environmental policies are addressed globally.

13 Second, the U.S. Government should increase its
14 commitment to the voluntary standards process. U.S.
15 Government employees should participate more in specific
16 technical committees to contribute their unique expertise.
17 An active government participation will bring more
18 credibility to the U.S. position in the international
19 standards process.

20 The existing United States process for developing
21 voluntary standards works fairly well. But, I want to
22 emphasize that in CMA's view, the U.S. Government must be
23 more active in the voluntary standards process.

24 The government's function has not been, and should
25 not be, to manage or control the American standardization

1 process. Rather, the U.S. Government should be a valuable
2 participant in a cooperative process which taps the
3 appropriate expertise of government resources.

4 This will result in a unique, market-oriented
5 standards approach. The role of the government in
6 international standards activities should be enhanced, to
7 ensure adequate representation of U.S. business needs.

8 Overall management of the standards process should
9 remain with the voluntary organizations, but the government
10 can increase its level of effort.

11 Third, CMA believes the U.S. Government should
12 better recognize international standards activities. Within
13 the U.S. Government, involvement in standards development
14 should be more effectively coordinated.

15 Coordination and cooperation at the international
16 level should also be enhanced by a government commitment to
17 complete implementation of the 1979 Trade Agreements Act.

18 Also, the U.S. Government should be more active in
19 defining and coordinating the role of technical advisory
20 committees. The technical advisory groups should help
21 promote the increased visibility necessary to ensure
22 effective U.S. participation in international standards. In
23 this way, U.S. business needs will be met.

24 An additional role for the government is to
25 aggressively communicate the existence of the international

1 counterparts to U.S. standards, as well as the U.S.
2 equivalents of international standards. This will help
3 break down barriers to international market entry.

4 As a fourth point, CMA recommends that the U.S.
5 Government consider a cooperative industry-government effort
6 aimed at developing certification, assessment, and auditing
7 criteria.

8 For example, the European Community has adopted
9 the ISO 9000 quality control series. Each EC member country
10 has established a national third-party audit and
11 registration system. Certifications of compliance in one EC
12 country automatically establish compliance in all other EC
13 countries.

14 In the United States, however, there is no similar
15 system. A nationwide program to register and certify
16 compliance and to accredit U.S. laboratories, is an urgent
17 need.

18 Mutual recognition agreements should be made under
19 which certifications and audits conducted by U.S. firms
20 assure compliance with the foreign equivalent standards.

21 Our last recommendation is that NIST should
22 consider establishing a blue ribbon panel to examine the
23 short and long-term strategic national standards issues.
24 The panel should then suggest additional areas where a
25 cooperative approach is required.

1 CMA would be pleased to actively participate in
2 the blue ribbon panel. The resources of our member
3 companies would be very valuable to the process.

4 To conclude, the government's role in
5 international standards activities should be enhanced. This
6 can be done without wholesale changes to the existing
7 framework for government-public cooperation on international
8 standards.

9 CMA's proposals build on the effective, existing
10 framework for government-private sector cooperation on
11 standards.

12 The U.S. chemical industry looks forward to
13 assisting NIST in its efforts.

14 We would be happy to answer any questions that you
15 might have.

16 CHAIRMAN WARSHAW: Thank you very much, Mr.
17 Attebery.

18 Are there any questions from the panel? Ms.
19 Moore.

20 MS. MOORE: I have a couple of questions. Could
21 you start by clarifying what you meant when you suggested
22 that the Trade Agreements Act of 1979 should be completed
23 implemented? And just to follow-up, another one of your
24 suggestions was a single accreditation program in some way
25 parallel to those being set up now in the EC. Could you

1 just elaborate on who you would expect to run that program
2 and how it would work?

3 MR. ATTEBERY: I am going to defer on that to my
4 associates. I have some very talented people here, and
5 Doctor, would you be glad to take that? Who is going to do
6 it?

7 CHAIRMAN WARSHAW: If you could pass the
8 microphone.

9 MR. ATTEBERY: I will pass it down there.

10 CHAIRMAN WARSHAW: They are going to work on that
11 at noon.

12 MR. McCLUNG: This of the Trade Agreements of 1979
13 is something which I feel that the panel could answer better
14 than we, but I would advise in that respect that is that we
15 have confusion among what we would call the volunteer
16 segments as to the results accomplished when the groups do
17 not communicate well.

18 In other words, we hear the hearsay, we seek
19 answers, we go to the American National Standards Institute
20 and say where do we stand on this? We are informed at that
21 time that the American National Standards Institute is not
22 truly recognized in the foreign countries where they have a
23 government regulation on the standards.

24 We do not see how the -- we get fully recognized
25 under the circumstance.

1 MR. TAYLOR: Repeat your second question, would
2 you, Ms. Moore?

3 MS. MOORE: Okay. The second question was, if I
4 understand your statement correctly, you suggested that a
5 single accreditation system, possibly under public and
6 private criteria parallel to those being set up in the EC
7 would be useful in this country.

8 Could you elaborate on how you see that system
9 working and who you would expect to be in charge?

10 MR. ATTEBERY: Currently, of course, the American
11 Society of Quality Control is seeking to set up such an
12 accreditation system, and we understand that Underwriters
13 Laboratories and BSI under a cooperative letter of agreement
14 are working in that area also.

15 Of course, the problem is that we have a lot of
16 American industry that will, in 1992 or soon thereafter,
17 have to live up to the ISO 9000-type standards, and each one
18 of these American companies is going to have to undergo a
19 complete look at the quality system that we have in place.

20 We had previous questions this morning about Japan
21 and their system. I can say categorically that the United
22 States industry, for the most part, is taking quality very
23 seriously. Many companies, most companies are getting into
24 the director and vice presidential level in their
25 corporations to set up good quality programs.

1 For example, Quantum Chemical Corporation
2 established my position about four years ago, but the fact
3 that we are putting together a very good quality system --
4 and quality systems are essentially the same if you have a
5 good total quality system, they will be the same worldwide.

6 That still is not going to open the door unless we
7 go through the accreditation process and so it is very
8 important to us.

9 CHAIRMAN WARSHAW: Is there another questions?

10 Well, thank you, Mr. Attebery. I will remind you
11 again that --- well, we do have a number of agencies
12 involved in amending the Trade Agreements Act. The U.S.
13 Trade Representative is the coordinator of that.

14 The record is open until June 5th if you would
15 like to expound upon your concerns. Of course, ANSI is a
16 member body of ISO/IEC which is distinct from government.
17 That's private.

18 MR. McCLUNG: Pardon me. The area where we see
19 concern -- I'm involved in several standards groups -- the
20 CMA providing direction in each of the code making panels in
21 the National Electric Code, the American Petroleum Institute
22 in the development of standards for use within their member
23 companies, as well as the IEEE.

24 There is confusion that comes back into each of
25 these sources as to what took place. There was a member

1 group of eight of these acronym names which did participate
2 last October in sessions with the European Community, ISO,
3 the IEC, the CEN/CENELEC.

4 From this comes back apparently more confusion to
5 the implementors, the volunteer doers than what existed
6 before. We need a coordinated reply, a series of
7 communications.

8 CHAIRMAN WARSHAW: I gather then you are
9 suggesting you are getting inadequate information relative
10 to EC efforts.

11 MR. McCLUNG: Yes.

12 CHAIRMAN WARSHAW: Okay. Because in the
13 Department of Commerce we do have a couple of sources -- one
14 being in NIST, the information center on that, and ANSI has
15 also been publishing some information. But we got the
16 comment. That's good.

17 If you could be more specific about some between
18 now and June 5th, that would be very helpful to us.

19 MR. McCLUNG: We can do that.

20 MR. ATTEBERY: We will do that.

21 CHAIRMAN WARSHAW: Okay. We will now move to the
22 Aerospace Industries Association. We have Ms. Cebulak, if
23 you would introduce your associate.

24 MR. CEBULAK: Thank you, Dr. Warshaw. Good
25 morning, ladies and gentlemen. I am Walt Cebulak, manager

1 of government technology at Alcoa Laboratories for the
2 Aluminum Company of America.

3 I am also chairman of the technical specifications
4 division of AIA's technical and operations council.

5 Accompanying me this morning is Barbara Boykin,
6 director of standardization programs for Aerospace
7 Industries Association. Mr. Tom Stark of McDonnell Douglas
8 who had planned to join us was unable to be here today
9 because of illness.

10 I am speaking on behalf of the Aerospace
11 Industries Association of America, the trade association
12 which represents the 50 major U.S. manufacturers of
13 commercial, military and business aircraft, helicopters,
14 aircraft engines, missiles, spacecraft, aerospace materials
15 and related components and equipment.

16 As you can see from the list of member companies
17 under Attachment A of our written testimony, AIA's
18 membership includes both prime manufacturers and major
19 supplies to the industry. So I am speaking on behalf of
20 both the user and supplier segments of that industry.

21 AIA is interested in the subject of today's
22 hearing from two perspectives. First, aerospace is a major
23 exporting industry. In fact, aerospace is a major exporting
24 industry, in fact, Aerospace is the U.S. leader among
25 exporting manufacturing sectors in terms of positive balance

1 of trade.

2 The chemical industry whose testimony you have
3 just heard is larger in total exports.

4 Total U.S. aerospace sales in 1989 were \$120.6
5 billion as shown in Attachment B, and our 1989 trade balance
6 was a positive \$20.9 billion as shown in Attachment C of the
7 written testimony, setting a record for the third
8 consecutive year.

9 Second, AIA is a major development of aerospace
10 standards at both the national and international levels.
11 AIA's national aerospace standards are the third largest
12 body of U.S. voluntary standards. Also, by delegation from
13 ANSI, AIA serves as secretariat of ISO/TC 20, the ISO
14 technical committee on aerospace.

15 Standardization is of major importance to the
16 aerospace industry for strong, customer-drive reasons.
17 Nearly every aspect of aerospace design, manufacturing,
18 operations and maintenance are subject to standards and
19 specifications. There are two reasons for this.

20 First, aerospace products must operate in extreme
21 environments. Human lives depend on them. Safety and
22 reliability are primary concerns. Aerospace designs utilize
23 a large number of standards because standards embody lessons
24 learned from previous designs and from operating experience.

25 Secondly, both civil and military aerospace

1 products are subject to detailed oversight by government
2 regulators and customers -- like FAA and DoD. Government
3 oversight is exercised partly through the application of
4 standards and specifications.

5 The chart in Attachment D illustrates the
6 extensive use of standards in a typical aerospace product
7 where more than 60 percent of most segments of major system
8 are subject to detailed standards.

9 Now I would like to turn to the purpose of this
10 hearing which is to identify problems in the U.S. standards
11 system. As far as aerospace is concerned, our view of the
12 current situation is that it is not broke. The system is
13 working well.

14 U.S. aerospace standards are recognized and used
15 all over the world. Such widespread acceptance of U.S.
16 aerospace standards, in turn, supports world demand for U.S.
17 aerospace products. Our standards help promote U.S.
18 technology and encourage trade.

19 As one example, the passenger aircraft structures
20 and engines are dominated by U.S. standards worldwide. That
21 is true for not only U.S. manufacturers but for foreign
22 manufacturers as well.

23 At the same time, we realize that strong
24 competition has arisen elsewhere in the world, particularly
25 in Europe in aerospace products -- and by extension, in

1 standards. The European Association of Aerospace
2 Industries, AECMA, has been deleted by CEN the task of
3 developing European norms for aerospace.

4 These standards are intended for use in European
5 joint ventures such as the European fighter aircraft and the
6 Airbus. AECMA has already published over 850 European Norm
7 standards.

8 Recognizing the potential negative effects of
9 divergence between European and U.S. aerospace standards,
10 AIA in 1977 instituted an exchange of draft standards with
11 AECMA. This exchange continues today. Harmonization also
12 takes place through the international standardization
13 committee, ISO/TC 20.

14 AIA believes that private sector leadership of the
15 U.S. standards system, serves the best interests of U.S.
16 business. The coordinating umbrella provided by ANSI places
17 decision-making in the hands of those who are most affected:
18 private sector business and industry.

19 This is not to say that government should not play
20 an active role. An excellent of cooperation has been seen
21 in the equal partnership between the Department of Defense
22 and the private sector on standardization.

23 AIA is opposed to government regulation in an area
24 which has functioned well without it. Government
25 accreditation of standards bodies, is an idea that has

1 surfaced in various forms over the past decade -- in
2 congressional bills, in an FTC proposed rule, and in OMB
3 Circular A-119 -- and has been repeatedly shown to be
4 unnecessary.

5 The U.S. voluntary standards community has
6 demonstrated that our system is healthy and beneficial to
7 U.S. technology and trade. The added costs and
8 administrative burden of changing our system to a government
9 regulated one are not justified, and again would divert
10 resources from the real problems which need to be addressed.

11 While we think that the system generally works
12 well, as with any system, there are problems. Let me
13 briefly identify four specific areas which would benefit
14 from improved cooperation between government and the private
15 sector.

16 First, technical barriers to trade. As U.S.
17 industry faces competitive challenges from EC 92 and other
18 developments, we must stay alert to the possibility of
19 technical barriers to trade and seek openness and
20 transparency in standards and certification worldwide.

21 The Secretary of Commerce, by initiating talks on
22 this subject with the EC, has provided an excellent example
23 of the appropriate and vital role of government.

24 Implementation of those agreements is, we believe,
25 the role of the appropriate private sector bodies, such as

1 ANSI and its European counterparts, CEN and CENELEC.

2 It is imperative for government and the private
3 sector to work cooperatively in such negotiations, and to
4 present a united front to the rest of the world. For the
5 United States to appear to be divided could undermine our
6 negotiating position at a critical time.

7 The second area is in funding and participation.
8 The government should be a full-fledged member of the
9 voluntary standardization system, and bear a share of the
10 technical and financial burden for its support.

11 Government participation should include
12 representation on committees, attendance at meetings,
13 sponsorship of projects, and payment of a fair share of the
14 costs.

15 With regard to funding of standardization
16 activities, AIA believes the primary responsibility should
17 remain where it is now -- in the private sector.

18 Instead of government grants or subsidies, we
19 should explore the feasibility of providing financial
20 incentives, such as tax credits, to encourage companies to
21 participate actively in international standardization.

22 This would offset the inequity between companies
23 which actively support such international standardization by
24 paying travel, salary and living costs for technical experts
25 to attend meetings, and those companies which benefit from

1 the resulting standards without actively participation.

2 The third area is an awareness of the importance
3 of standardization where the government and private sector
4 need to work cooperatively. This subject, too, has been
5 mentioned in several previous statements and I do not need
6 to go into detail.

7 This brings me to the fourth area, certification.

8 The aerospace and defense industries need a
9 national system to approve suppliers and quality products.
10 We could save millions of dollars that are spent yearly in
11 redundant audits under the current system.

12 Toward this goal, AIA has joined with two dozen
13 industry and professional associations, non-government
14 standards bodies and government agencies, to form the
15 National Contractors Accreditation System, or NCAS.

16 Rather than go into detail, I refer to the
17 testimony presented earlier this morning by Mr. Mayben. AIA
18 believes we need a system that is industry supported, not
19 government sponsored, but endorsed and participated in by
20 the government.

21 And now some conclusions and our recommendations.

22 AIA believes the specific problems we have
23 identified could benefit from closer cooperation between
24 government and the private sector. To accomplish this goal,
25 it is not necessary to create a new bureaucratic structure.

1 The cost, confusion, and delay that would result
2 from an extended debate on a new structure would divert
3 energies and resources that are urgently need to address a
4 limited number of real problems.

5 The U.S. system as a whole is not broken and does
6 not need fixing. The private sector should retain the
7 primary responsibility for directing the U.S.
8 standardization system.

9 The government should participate in the system,
10 but should not seek to control or regulate it. The specific
11 problems identified in our testimony and that of others here
12 today, should provide the basis for focused, cooperated
13 efforts.

14 The aerospace industry stands ready to participate
15 fully in these efforts.

16 We request that the full test of our written
17 testimony be included in the formal record. We would be
18 happy to answer any questions.

19 CHAIRMAN WARSHAW: Thank you, Mr. Cebulak, and we
20 will include the text.

21 Are there any questions from the panel? Mr.
22 Donaldson.

23 MR. DONALDSON: It strikes me that we have heard
24 from a number of speakers now that one of the ways in which
25 the government could better contribute to the standards

1 system in the United States is through more participation in
2 the standards activities.

3 In a sense, that strikes me somewhat as apple pie.
4 It is something that I think everybody would agree to. I
5 wonder what kind of an objective basis could be mounted to
6 demonstrate that either government participation is
7 inadequate below what it has been, or that greater
8 government participation would, in fact, return greater
9 benefit to the system.

10 Would you be able to cite cases where there is
11 under-representation now or where increased representation
12 might contribute? Thank you.

13 MS. BOYKIN: As Mr. Cebulak mentioned, AIA is very
14 active in ISO through the TC 20, the technical committee for
15 aircraft and space vehicles. We have a very large work
16 program and ten subcommittees in that activity.

17 Government participation has been kind of
18 noticeable for its spottiness, if I can say so. We have
19 people who come and go. Sometimes we will have government
20 in one of the subcommittees and not in all of the other
21 ones.

22 We have no control over this and obviously there
23 are budget constraints, but it does seem to me that the
24 government, as they move their focus from development of
25 government standards, are going to have to fight very hard

1 to keep the budget that they had for those activities and
2 transfer it to some of the areas that might bring them
3 bigger bang for their bucks, particularly in the
4 international arena.

5 So we would certainly say a word for our area, but
6 there are obviously a lot of areas that the government is
7 going to have to look at, and maybe that would be a job for
8 a coordinated effort by the interagency committee on
9 standards policy.

10 MR. DONALDSON: Thank you.

11 MR. CEBULAK: I might add, I think if you would
12 like some further suggestions on specific areas, we could
13 ask some of our committees who are particularly active
14 internationally to cite specific situations where we see
15 that under-representation.

16 MR. DONALDSON: I think it is quite clear that
17 each federal agency in the pursuance of the adoption and
18 acceptance of its budget, clearly through that process,
19 those with the standards-oriented people, have been making
20 cases for this participation.

21 So I think obviously a stronger case needs to be
22 made and it is from comments such as your own that a
23 stronger case can be made. Thank you.

24 CHAIRMAN WARSHAW: Well, we thank you very much
25 and again, you know, we will be receiving comments until

1 June 5th so any information or additional information you
2 can provide between now and then would be most constructive.
3 Thank you.

4 We will now have the Air-Conditioning and
5 Refrigeration Institute.

6 (Pause.)

7 CHAIRMAN WARSHAW: Well, Mr. Cooper, we welcome
8 you and ask you to introduce your associates.

9 MR. COOPER: Thank you very much, Dr. Warshaw.

10 I am Morgan Cooper, manager of strategic planning
11 for the Barber-Colman Company and chairman of ARI's
12 international standards policy subcommittee.

13 Accompanying me on my right is Herb Phillips, and
14 who is vice president for engineering of AIR, and on my left
15 is Don MacKay who is ARI's manager of international
16 standards.

17 The Air-Conditioning and Refrigeration Institute,
18 ARI, is the national trade association representing
19 manufacturers of air-conditioning, heating and commercial
20 refrigerating equipment as well as manufacturers of related
21 equipment including energy management controls.

22 ARI develops and publishes product performance
23 rating standards and administers voluntary programs using
24 third-party testing laboratories.

25 ARI made a management decision over a year ago to

1 increase the Institute's involvement in the standards
2 development activities of both ISO and IEC and to
3 aggressively encourage the development of international
4 standards for air-conditioning and refrigeration equipment.

5 The implementation of this management is evidenced
6 by ARI's development of 12 new draft international
7 performance standards for consideration by subcommittee of
8 ISO TC 86 on refrigeration and the development of two drafts
9 standards for consideration by IEC's subcommittee 16D on
10 safety of appliances for air-conditioning, household and
11 similar purposes.

12 ARI has also worked closely with Canada to
13 harmonize the electrical and safety requirements and has
14 produced a single document without reducing the level of
15 safety provided by the original documents.

16 And to our knowledge, this is the first bi-
17 national U.S./Canadian standard that has been developed.

18 These activities continue. Just yesterday a
19 commitment was made by ARI to develop an ISO standard for
20 environmental control systems and to harmonize U.S. and
21 Canadian safety standards for compressors.

22 ARI will adopt international standards or justify
23 why an international standard cannot be adopted. The member
24 companies of ARI realize that the adoption of ISO and IEC
25 standards will involve conversion to metric units as well as

1 changes in their equipment. ARI is committed to the
2 development of international standards.

3 ARI is opposed to the SCUSA proposal primarily
4 because the stated purpose of the organization is
5 essentially the objective of ANSI and many of the proposed
6 functions of SCUSA are presently the responsibility of the
7 Federal Government.

8 The establishment of a new organization to
9 supplant ANSI as an accreditor of national standards
10 developers would create confusion and inefficiency within
11 the present system that is functioning very satisfactorily.

12 Although the stated purpose of SCUSA focuses on
13 international standards, the SCUSA proposal goes beyond
14 international standards and provides for government
15 intervention in the existing U.S. voluntary standards
16 systems.

17 It provides for a quasi-government replacement of
18 ANSI. ARI has serious concerns about Federal Government
19 intervention in the control of the U.S. voluntary standards
20 system. The Government has a role to play, but this role
21 can be played within the present system, certainly without
22 creating a council of the type proposed.

23 In reviewing the eight statements that describe
24 the scope of SCUSA, ARI has the following specific
25 observations to make concerning the role of the Federal

1 Government in activities related to international standards.

2 Now in SCUSA Proposal No. 1 covers encourage
3 government participation in the development and use of
4 voluntary standards.

5 OMB Circular A-119 promotes the use of voluntary
6 standards in federal agency programs and encourages federal
7 agency participation in the development of voluntary
8 standards. The circular also assigns that responsibility to
9 the Department of Commerce for coordinating the
10 implementation of the provisions of the circular by the
11 federal agencies and departments involved.

12 Therefore, we see no basis for the need of
13 standards council to carry out this function.

14 SCUSA Proposal No. 2, provide information to U.S.
15 interests on specific standards, product certification and
16 testing and act as the U.S. GATT Inquiry Point.

17 The National Institute of Standards of Technology
18 is the official GATT inquiry point responsible for providing
19 information on standards, testing and certification
20 programs. Since these functions are being carried out
21 within the Department of Commerce, there appears to be no
22 need to assign them to a new Standards Council.

23 SCUSA Proposal No. 3, effect agreements through
24 the Secretary of Commerce with foreign government entities
25 for transparency in standards development and the acceptance

1 of conformity assessment results.

2 The development of agreements with foreign
3 governments is strictly a governmental function and one that
4 should be handled by the Department of Commerce and the U.S.
5 Trade Commission, with the advice of industry advisory
6 groups. A standards council is not necessary to provide
7 advice to the Secretary of Commerce on such matters as
8 advisory groups already exist.

9 SCUSA Proposal No. 4, provide financial assistance
10 for U.S. representation in foreign national, regional or
11 international standards activities.

12 The language of Section 415 of the Trade
13 Agreements Act of 1979 can be interpreted to allow the
14 Department of Commerce to provide financial assistance. ARI
15 would recommend that the Federal Government consider paying
16 the annual dues for the United States in ISO and IEC.

17 ARI would also recommend that federal agencies
18 contribute to U.S. participation in international standards
19 activities by providing appropriate technical experts to
20 U.S. Technical Advisory Groups and U.S. delegations to
21 meetings of ISO and IEC where expertise lies within the
22 government sector.

23 It should be noted, however, that for the air-
24 conditioning and refrigeration industry, the technical
25 expertise lies with those who design, develop and produce

1 the equipment.

2 SCUSA Proposal No. 5, promote and coordinate U.S.
3 technical and management assistance to the standards
4 programs of developing and middle-income countries.

5 ARI opposes the use of federal funds to promote
6 and coordinate U.S. technical standards and management
7 assistance to developing and middle-income countries.
8 Instead U.S. efforts should be directed toward the
9 development of international standards which serve the
10 interests of all nations including the United States and the
11 developing countries.

12 ISO and IEC should be encouraged to provide
13 standards assistance to developing and middle-income
14 countries.

15 SCUSA Proposal No. 6, coordinate within the United
16 States, the harmonization between the United States and
17 Canada of federal, state and local standards and related
18 matters.

19 As we have indicated, ARI has been very active in
20 the harmonization activities relating to the safety and
21 certification of air-conditioning and refrigeration
22 equipment.

23 This has been done without any assistance from the
24 government and ARI would encourage the Department of
25 Commerce to actively encourage other industry associations

1 to initiate similar projects with their Canadian
2 counterparts to harmonize their requirements.

3 ARI would also encourage the Department of
4 Commerce to promote the harmonization or elimination of
5 state, local and other requirements that differ from
6 national requirements.

7 SCUSA Proposal No. 7, accredit national standards
8 developers and U.S. member bodies to international and
9 regional standards development organizations.

10 ANSI presently accredits national standards
11 developers as well as representatives to regional and
12 international standards development organizations. There is
13 no need or justification for a new standards council to take
14 over these activities.

15 SCUSA Proposal No. 8, recognize national
16 conformity assurance programs, including a product
17 certification, laboratory accreditation, and quality system
18 assessment registration.

19 ARI does not believe that a standards council is
20 necessary to recognize national conformity assurance
21 programs. It is the marketplace which recognizes and
22 accepts the effectiveness of such programs in this country.

23 The appropriate role of the federal government is
24 to seek agreements with other nations whereby U.S. product
25 certification, type approval, laboratory accreditation and

1 manufacturers' quality assurance programs are recognized by
2 foreign governments or entities, particularly where such
3 recognition is required to gain access to their markets.

4 ARI appreciates the opportunity to present its
5 views on U.S. participation in international standards
6 activities in general and on the SCUSA proposal
7 specifically.

8 We believe that through hearings such as this,
9 organizations such as ARI can expound on the importance of
10 international standards and ways in which the Federal
11 Government can assist the private sector.

12 If I may, I would like to add one brief personal
13 comment, not ARI's, and that is that both I and my company
14 are a bit puzzled by the SCUSA proposal, as the Bush
15 Administration seems to favor very strongly moving
16 everything possible into the private sector and the SCUSA
17 proposal appears to conflict with this announced public
18 position.

19 Thank you.

20 CHAIRMAN WARSHAW: Thank you very much, Mr.
21 Cooper. Any questions from the panel? Mr. Donaldson.

22 MR. DONALDSON: Thank you. Your remarks in one
23 area I find a little bit curious and perhaps I should
24 recognize them as being specific to the industrial sector
25 that you gentlemen represent.

1 I am particularly concerned with your remarks with
2 regard to the provision of technical assistance to emerging
3 countries. I am not particularly interested in addressing
4 whether this is a part of a strawman concept or not, but I
5 am interested in addressing it as a point unto itself.

6 At the present time, as you may know, there have
7 been efforts to initiate such activities. We have heard
8 reference to that in the previous discussion with the CMA.

9 Where international standards do exist and where
10 those international standards are sufficient for the
11 purposes of the development country, your points may be well
12 taken.

13 But I think that we are aware of the fact that
14 there are many areas in which the international standards
15 are not sufficient to do the whole job. I think this is
16 demonstrated by the fact that in a number of developing
17 countries, we see the national standards bodies
18 representatives there actively involved with the standards
19 communities of those countries, so that I wonder if your
20 feelings with respect to the provision of U.S. assistance to
21 such countries and their standards activities, if you feel
22 that this is a comprehensive statement with respect to your
23 industry, and does that mean, therefore, you feel that
24 international standards are sufficient within your sector?

25 MR. COOPER: I think I would like to ask Herb

1 Phillips to address that issue. He is very involved in that
2 particular arena.

3 MR. PHILLIPS: John, your point is well-taken.
4 Our industry is saying there are international standards
5 existing or underway and we see, of course, that that is
6 certainly being accelerated in our industry.

7 Therefore, the direction should be through the
8 international route rather than through the national route.

9 MR. DONALDSON: Okay, with that qualification, I
10 can certainly understand.

11 CHAIRMAN WARSHAW: Well, if there are no further
12 questions, I want to thank you very much for your
13 contribution and now we will adjourn for lunch and we will
14 reconvene at 1:30 sharp when we will have the Gas Appliance
15 Manufacturers Association and the Construction Industry
16 Manufacturers Association presentations.

17 (Whereupon, the hearing was adjourned at 12:35
18 p.m., the reconvene at 1:30 p.m. the same day.)

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A F T E R N O O N S E S S I O N

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CHAIRMAN WARSHAW: Well, good afternoon, ladies and gentlemen. We are ready to begin the afternoon session with two of the associations, first the Gas Appliance Manufacturers Association, and the Construction Industry Manufacturers Association.

9

For those of you who may have just joined us, I want to again repeat that we have extended the comment period until June 5th in order that people might wish to provide additional comment as a consequence of this hearing, or any other new information that they may wish to introduce.

15

So I will ask first for Mr. Autery of the Gas Appliance Manufacturers Association to introduce himself and his associate and please offer his comments.

18

MR. AUTERY: Thank you very much. I'm Reuben Autery, the president of the Gas Appliance Manufacturers Association. I am relative new to the standards development and certification game, having joined GAMA in 1988 after 30 years of service for the United States Air Force.

23

With me here today to assist in answering any questions is Jack Langmead. Jack is GAMA's vice president and has been involved with the voluntary standards

25

1 development and certification of gas appliances for over 25
2 years.

3 GAMA is a national manufacturing trade association
4 representing the interest of firms which produce
5 approximately 90 percent of the gas appliances made in the
6 United States. GAMA also represents the interests of the
7 manufacturers of oil furnaces and electric and oil water
8 heaters.

9 While GAMA does not develop standards, we and
10 member company representatives do participate actively at
11 the standards development tables of others. GAMA and its
12 members are deeply committed to the development and
13 maintenance of effective safety and performance standards
14 for gas appliances.

15 GAMA and its members also support and use third
16 party safety certification programs for gas appliances, such
17 as those conducted by the American Gas Association
18 Laboratories, Underwriters Laboratories, and ETL
19 Laboratories.

20 GAMA also sponsors a program to certify that the
21 published efficiency ratings of central heating equipment,
22 water heating equipment and direct heating equipment have
23 been determined in accordance with the Department of Energy
24 efficiency test procedures.

25 GAMA is also involved in international standards.

1 We hold, through ANSI, the secretariat for ISO/TC 161 on
2 non-industrial gas controls and coordinate the work of that
3 committee with IEC/TC 72 on electrical controls.

4 Consideration of another governmental body for
5 control of a system that is currently working well must not
6 ignore the budget impact in these times of needed budget
7 austerity, nor the potential for political manipulation,
8 possible delays at critical stages of product development
9 and potential legal problems.

10 We would advocate more governmental cooperation in
11 the system that works, not more government with added costs
12 to the taxpayers.

13 We were glad to note in the November 27, 1989
14 Federal Register notice of this hearing that a distinction
15 has been made between standards participation issues and
16 testing and certification issues.

17 Let me talk about the principal issues dealing
18 with standards participation first.

19 The standards development system of this country
20 has proven to be world class. It appears that the European
21 Economic Community recognized that a private sector-led
22 standards development system such as ours would work more
23 efficiently than a public sector-controlled system.

24 In establishing a mechanism to harmonize European
25 standards, the EEC called upon and financed CEN and CENELEC,

1 the existing private sector organizations more like our
2 system than Europe's government controlled systems.

3 The U.S. Government should continue to serve as
4 the formulator and the negotiator of U.S. trade policy, but
5 should leave the ANSI-led voluntary standards process to
6 continue along the track it has so successfully followed for
7 the past 70 years.

8 We believe that the health of the gas industry
9 depends upon our excellent voluntary standards development
10 system and the third party certification programs based on
11 those standards.

12 Properly handled, gas fuel provides an extremely
13 safe, environmentally advantageous and efficient energy
14 source for comfort heating, water heating, cooking and
15 clothes drying.

16 One of the reasons for the gas appliance
17 industry's excellent safety record is the comprehensive
18 voluntary safety standards to which gas appliances are
19 built.

20 Industry's past and current willingness to
21 actively participate with highly qualified engineers, with
22 the attendant expenses, is, in their view, an individual
23 company's responsibility to the consensus gathering process.

24 If the government needs an additional role,
25 perhaps encouraging the tax treatment of standards

1 activities as a research expense would be a start.

2 Since its formation, the Consumer Product Safety
3 Commission has participated extensively in the gas appliance
4 standards development system. After detailed examination of
5 gas appliance safety standards on several occasions, CPSC
6 has repeatedly found that government standards were not
7 necessary because safety issues were adequately addressed in
8 the voluntary standards and compliance with those standards
9 was complete.

10 The CPSC involvement with voluntary standards
11 covering gas appliances and other equipment led former CPSC
12 Chairman Terrence Scanlon to observe, "Voluntary standards
13 are more quickly implemented, cheaper for the taxpayer, and
14 less litigious than government promulgated safety
15 standards."

16 In cooperation with the American Gas Association
17 and the Canadian Gas Association, GAMA is very active in the
18 area of harmonizing U.S. and Canadian gas appliance
19 standards.

20 While we encourage government agencies such as the
21 CPSC to work with us in this harmonization effort, we
22 believe that the coordination of the effort should remain in
23 the private sector as opposed to being transferred to the
24 public sector as noted in Point 6 of the Standards Council
25 Proposal.

1 The U.S. Government certainly has a role to play
2 in national and international standards development. That
3 role, in addition to formulating and negotiating trade
4 policy, should be supporting input into, and use of
5 standards developed by members of the American National
6 Standards Institute, ANSI, federation.

7 The government's role should not be to dominate
8 and control the process as would result from implementation
9 of a system paralleling Canada's Standards Council which
10 includes government accreditation of national standards
11 developers as noted in Point 7 of the Standards Council
12 Proposal.

13 It must be remembered that Canada established a
14 Standards Council because it did not have an organization
15 like ANSI, established by standards developers to coordinate
16 the standards development effort.

17 Since Canada had no organization or funding
18 mechanism through which to participate in international
19 standards, it had to create one. We have a well-
20 functioning, reasonably well-funded, organization in ANSI.

21 The traditional role of government in voluntary
22 standards should be re-affirmed. What should not be done is
23 to change the basic nature and scope of the highly effective
24 and productive voluntary standards development system in
25 this country.

1 To summarize our position on the standards
2 participation issues, we believe that our national standards
3 development system and our international standards
4 participation system are not broken and thus do not need to
5 be fixed.

6 Now, let me focus briefly on the testing and
7 certification issues.

8 As we harmonize our standards with Canada and the
9 European Economic Community, we certainly need to develop a
10 system for mutual recognition of test data by third party
11 safety certifiers.

12 Repeated testing to verify compliance with
13 essentially the same requirements wastes both time and
14 money. There is no question that a coordinated
15 government/private sector strategy must be developed to
16 address the issue.

17 In developing that strategy, it must be
18 remembered, however, that we have a very effective third
19 party safety certification system in place in this country
20 which is very useful to government, but which is neither
21 controlled nor directed by the government.

22 The Standards Council proposal was developed to
23 respond to changes anticipated as a result of EC 92
24 initiative. EC 92 will certainly lead to some changes in
25 both our certification and standards development system.

1 These changes can best be handled through the ANSI
2 process, and through government participation in that
3 process. As established by ANSI's by-laws, the only
4 permanent seat on the ANSI Board is the Director of NIST.
5 This opportunity for linkage at the policy level should be
6 enhanced by consistent, active participation.

7 Government control of the process should be
8 avoided. In the standards development and certification
9 area, the role of government should be to deal with other
10 governments, and the role of the U.S. private sector should
11 be to deal with the private sector of other countries such
12 as the EC's CEN and CENELEC.

13 Mr. Chairman, GAMA and our member companies stand
14 ready to support and promote an industry-led cooperative
15 process with governmental agencies to enhance the global
16 competitive position of the United States.

17 Thank you for your time.

18 CHAIRMAN WARSHAW: Thank you, Mr. Autery. Are
19 there any questions from the panel?

20 Yes?

21 MR. McCUTCHEON: I noticed in the early part of
22 your presentation, you made the statement that we would
23 advocate more government cooperation in the system that
24 works, I think primarily to try and contrast that with
25 cooperation as opposed to control or direction.

1 But I notice in a number of other presentations,
2 some specific information had been given on the form that
3 that cooperation would take. Do you have any ideas that you
4 could elaborate on what form you think the government
5 cooperation could take that isn't already in existence
6 today?

7 MR. AUTERY: Mr. McCutcheon, if I may, I would ask
8 Mr. Langmead to respond to that question since he's got 25
9 years and I've got two.

10 MR. McCUTCHEON: That's fine.

11 MR. LANGMEAD: Thank you. I think the principal
12 areas where we would like government cooperation is
13 attending and membership on American National Standards
14 committees and the various subcommittees, allowing those
15 agencies to vote as individuals with their knowledge, to
16 bring their knowledge to the table with the rest of us, on
17 an equal and well-funded footing.

18 We find that in many cases, representatives of the
19 Consumer Products Safety Commission can't afford to travel
20 to a standards committee meeting because of budget
21 constraints.

22 MR. McCUTCHEON: Okay, thank you.

23 CHAIRMAN WARSHAW: Mr. Leight.

24 MR. LEIGHT: You referred to the need to develop a
25 system for mutual recognition of test data by third party

1 safety certifiers.

2 I wonder if you would care to address this in a
3 little bit more detail as to how this might be done,
4 particularly as one of the speakers this morning pointed
5 out, where you have a safety consideration which are
6 voluntarily controlled in one part of the world, and which
7 are regulatory in another.

8 MR. AUTERY: Jack, why don't you try that?

9 MR. LANGMEAD: Well, with our products, the
10 products are in the European Economic Community, regulated
11 products. In this country, our safety certification is
12 voluntary, but our efficiency certification is mandatory
13 which seems a little backwards, that that's the way it is
14 here, different than the rest of the world.

15 We have worked very cooperatively with Canada and
16 there are agreements between the Canadian standards third
17 party certification agencies and those agencies in the
18 United States where cooperative testing and mutual
19 recognition of test data has been accomplished.

20 There are certain agreements between U.S. third
21 party certifiers and European third party certifiers where
22 mutual recognition, where there is a start towards mutual
23 recognition. There is some sharing of inspection
24 information between the AGA Laboratories -- I'm sure they've
25 already testified -- and some of the organizations in

1 Europe.

2 We are progressing along the line that says
3 eventually we think there will be some better communication
4 between third party certifiers.

5 We have seen nothing at the present time that
6 mandates further government action to straighten out any
7 difficulties we had. Once we have isolated what those
8 problems are, we may be back with specific requests for
9 government involvement in that area.

10 That's why we said we don't know what it is but we
11 encourage the government to work with us through ANSI,
12 through the ANSI process, to isolate those problems and set
13 courses of action where they are necessary.

14 MR. LEIGHT: Thank you.

15 CHAIRMAN WARSHAW: Wendy.

16 MS. MOORE: A number of presenters earlier this
17 morning suggested that one of the problems with the current
18 system is the difficulty for relatively small entities to
19 have the resources to participate, and particularly testing
20 labs, to some extent, complained that they did not have the
21 resources to participate in the international standards
22 setting process, and that the industries they served were
23 not devoting many resources to testing standards.

24 I wonder if you could tell me whether your
25 association looks at testing standards and standards for

1 assessing your products, as well as for the standards for
2 the products themselves?

3 MR. LANGMEAD: I guess looking at the impact on
4 small business, trade associations exist to be useful to
5 their members. Many of our members are small businesses.
6 As a matter of fact, the biggest share of our members are
7 small businesses.

8 There are some large businesses also, but in
9 bringing, so that they get their international standards
10 through their trade associations, so where there is a need,
11 an association is formed and they work through that
12 association.

13 I don't think there is a problem, a particularly
14 insurmountable problem for small business in dealing with
15 international standards or in the international community as
16 long as those businesses band together in the American way
17 through various associations.

18 CHAIRMAN WARSHAW: I thank you very much for your
19 presentation and now ask Mr. Miller of the Construction
20 Industry Manufacturers Association to present his views.

21 MR. MILLER: Good afternoon.

22 CHAIRMAN WARSHAW: You can remain seated, if you
23 like.

24 MR. MILLER: Thank you. My name is Bill Miller.
25 I am the director of technical services for the Construction

1 Industry Manufacturers Association. With me today is Mr.
2 Dennis Eckstine who is the director of product safety and
3 reliability for GRW worldwide.

4 We wish to thank you for this opportunity to
5 present our comments today.

6 For a multitude of reasons, the Construction
7 Industry Manufacturers Association, CIMA, has strongly and
8 consistently supported the United States' unique and time-
9 tested private sector voluntary standards system.

10 CIMA believes this system has served our
11 association, our industry, and our nation well, in both
12 domestic and international standards activities.

13 CIMA is convinced that, in total, the U.S.
14 standards system is superior to those of other countries.
15 However, CIMA also recognizes that it is not a perfect
16 system, and therefore would welcome and support any true
17 refinements to it, at any time.

18 For this reason, CIMA supports this public hearing
19 to assess the current situation and to seek suggestions for
20 improvement especially regarding mechanisms for coordinating
21 U.S. participation in international standards activities.

22 CIMA believes that this hearing is particularly
23 timely in view of the European Community's massive Single
24 Internal Market program, which will strongly impact U.S.
25 industry.

1 CIMA recognizes the need for, and desirability and
2 benefits of, the government's active participation in, and
3 coordination and cooperation with, the private sector's
4 standards system.

5 It also recognizes the very essential role of our
6 government in dealing with the governments of foreign
7 nations, on issues relating not only to product standards,
8 but to product testing and certification as well.

9 Major issues which we believe the government
10 should promote wherever and whenever possible include the
11 widespread recognition and use of ISO standards including by
12 our own government agencies such as OSHA; self-certification
13 or declaration where appropriate; the mutual recognition of
14 high-quality testing laboratories; and the reduction of
15 technical barriers to trade through the harmonization of
16 standards and regulations.

17 However -- and I wish to stress this particular
18 point -- CIMA remains strongly opposed to any greater
19 government control over our nation's voluntary, private
20 sector standards system.

21 In addition, CIMA wishes to express its concern as
22 to the wisdom of undertaking any major revisions to our
23 nation's standards system at the very time that unusually
24 great demands are being placed upon it, as a result of EC
25 92.

1 A major restructuring of this system at this time
2 would be, at the least, very disruptive, and could easily
3 result, at least for a substantial period of time, in a
4 decrease rather than improvement in its effectiveness.

5 In the interest of avoiding lengthy comments that
6 would largely duplicate those of ANSI, SAE and others more
7 intimately involved with these issues, CIMA is limiting its
8 input to these few, but we believe, very important comments.

9 Thank you.

10 CHAIRMAN WARSHAW: Thank you very much, Mr.
11 Miller, for your comments. Are there any questions from the
12 panel?

13 Well, your remarks not only have brevity, but they
14 were succinct.

15 MR. LEIGHT: Let me ask one question. I would
16 like to ask you the same question I just asked GAMA, whether
17 in the testing and certification area, you see any specific
18 role that the government should be pursuing to get these
19 things of mutual recognition, reciprocity and so on that you
20 talked about but passed over very quickly. How do we do it?

21 MR. MILLER: Mr. Eckstine.

22 MR. ECKSTINE: I don't have a particular plan and
23 I don't think the industry itself has put forth any
24 proposal, so I can't give you any plan other than to
25 indicate that that is the end which we would like to see.

1 If you would like, perhaps we can get together a
2 comment from the industry on some suggestions in that area.

3 MR. LEIGHT: If you do have any such suggestions,
4 I think we would welcome them. That is one of our
5 underlying purposes in holding these hearings and, you know,
6 we have dealt with CIMA in the past and I think we have had
7 a pretty good relationship.

8 If you do have these suggestions, please send them
9 in.

10 MR. MILLER: This may not answer your question
11 directly, but many of our members make products that are
12 very large, very heavy, very difficult to ship, have very
13 long lead times to design and produce and therefore it is
14 particularly important to our members to have a choice of
15 testing and certification procedures, depending on the
16 product and the location and the items being tested.

17 Again, like Dennis said, I think we are not
18 prepared to comment on that particular area, but we would be
19 happy to go back and try to provide some constructive
20 comments.

21 CHAIRMAN WARSHAW: We would very much appreciate
22 it. As I say, the record is open until June 5th, so we
23 would appreciate any thoughts you have along the lines of
24 Mr. Leight's question.

25 MR. LEIGHT: Of course, we expect constructive

1 comments from the Construction Industry Manufacturers
2 Association.

3 MR. MILLER: Okay.

4 CHAIRMAN WARSHAW: Well, thank you gentlemen.

5 MR. MILLER: Thank you.

6 CHAIRMAN WARSHAW: I would like now to ask the
7 representatives of the Industrial Truck Association and the
8 Plumbing Manufacturers Institute and the Automotive Industry
9 Action Group if they could, those three entities, come
10 forth. We would appreciate it.

11 Oh, I'm sorry. I left out the American Gear
12 Manufacturers Association. That was an oversight. Let's
13 make it the American Gear Manufacturers Association,
14 Industrial Truck and the Plumbing Manufacturers, and the
15 Automotive Industry Action Group. All four, please. I
16 think we have enough seats.

17 (Pause.)

18 CHAIRMAN WARSHAW: I apologize for the confusion.
19 Thank you very much for being here. I would like first to
20 ask Mr. King of the American Gear Manufacturers Association
21 if he would offer his comments and introduce his associates.

22 MR. KING: Certainly. I am David King, vice
23 president of technical services of Terrell Gear Drive
24 Incorporated. I am also a member of the board of directors
25 of American Gear Manufacturers Association.

1 Seated on my left is Bill Bradley, AGMA technical
2 manager and ISO Secretariat to TC 60's Working Group 9. To
3 his left is Peter Lamb, our legal counsel, and to my right
4 is Susan Herrenbruck, AGAM's manager of public and economic
5 affairs.

6 On behalf of the American Gear Manufacturers
7 Association AGMA, we express our thanks for the opportunity
8 to comment on standardization and our current process.

9 AGMA is a voluntary standards-developing trade
10 association representing over 300 domestic and foreign
11 companies, academics, and honorary members. Our members
12 account for 92 percent of all domestic gear manufacturers
13 with more than 20 employees. Last year, U.S. gear industry
14 annual sales approximately \$1.7 billion.

15 For over 70 years, AGMA has developed voluntary
16 gear standards. The first was adopted in 1919 for rawhide
17 gears. Although AGMA has developed more than 100 known
18 standards to date, there are 57 existing standards available
19 today.

20 Our standards-development activities are
21 increasing. AGMA became the ANSI-accredited U.S. standards-
22 writing body for gears in 1986 and since then has developed
23 over 20 national standards.

24 This year alone, AGMA plans to develop 6 to 12 new
25 ANSI national standards.

1 It is AGMA's position that voluntary standards,
2 developed under ANSI procedures by American trade and
3 technical associations, result in open transparent
4 development of consensus standards.

5 ANSI, as a private sector organization, is best
6 suited to coordinate national standards development
7 activities and integrate them with standards developed by
8 ISO.

9 We therefore oppose the proposed Standards Council
10 of the United States and stand strongly against any attempt
11 to subject standards development to the federal rulemaking
12 process.

13 We believe NIST and the Department of Commerce
14 should integrate their activities to further complement
15 ANSI's work, but not to duplicate an established, working
16 private sector system.

17 AGMA is heavily committed to ISO endeavors. We
18 provide funding to send U.S. ANSI delegates to participate
19 in ISO Technical Committee 60, ISO/TC 60 for gears. AGMA
20 administers the U.S. Technical Advisory Group for ISO/TC 60
21 for ANSI and participates in all ISO gear standards
22 development work.

23 In both its structure and procedural methods, such
24 as voting, we find that ISO is adopting more elements of the
25 U.S. standards system. AGMA's procedures for standards

1 development were adopted by Working Group 6 of ISO/TC 60
2 facilitating progress on international gear-rationing
3 standards.

4 Another example of American leadership is that the
5 U.S. TAG for gears just took on the challenge of writing an
6 ISO draft standard for Bevel Gearing. Mr. Bradley here can
7 address any questions you might have on standards
8 development later.

9 The Canadian standards system has been proposed as
10 a model for the U.S. to examine. First of all, you need to
11 understand that our comments on this proposal are strictly
12 from a gear-related perspective.

13 Let's consider the facts. Canada does not produce
14 nearly as many standards or cover all subject areas
15 sufficiently. Right now, Canada is having difficulty in
16 obtaining government funds to produce needed standards.

17 More importantly, at least in one industry area --
18 that being gears -- most Canadian companies use American
19 standards. To the extent that Canadians use American
20 standards, they do not have to incur the expense of
21 developing their own.

22 To the best of our knowledge, Canadian
23 representatives do not participate in any of the ISO gear
24 standards-writing bodies. ISO gear ballots from Canada are
25 being issued without consulting Canadian gear companies or

1 its academic community, and without their consent.

2 On several occasions, the SCC has elected to pass
3 -- that is, not to vote -- on ISO gear-related ballot
4 questions. The votes case, or in some cases passed upon,
5 are in favor of items which actually conflict with the very
6 standards to which Canadian gear industry manufactures.

7 Now, let's compare Canada's seven secretariats
8 under the SCC to the U.S. total. In 1989, Americans held
9 291 secretariats at various levels -- 17 at technical
10 committees, 64 at subcommittees, and 210 at working groups.

11 Our voluntary system appears to promote
12 international participation. The failure of SCC or Canadian
13 representatives to participate in ISO gear standards
14 development, coupled with overall funding difficulties,
15 leave the Canadian model extremely suspect, at least as
16 applied to gear and gear products. Given these facts, we
17 insist that we not abandon the U.S. system for that of
18 Canada.

19 Now let us turn to the proposed American model
20 known as Standards Council of the United States, or SCUSA.

21 SCUSA poses serious concerns for AGMA. About 13
22 years ago, this entire issue was debated, litigated, and
23 laid to rest after almost being regulated. At that time, a
24 proposed FTC regulation and a DOC regulation was being
25 examined. The standards controversy focused then, as now,

1 on the appropriate government role.

2 Once again, the real question underlying these
3 hearings seems to be should the government regulate
4 standards development?

5 AGMA firmly opposes any effort by any government
6 agency to alter or regulate standards development. Our
7 objections to SCUSA can be summarized as follows: the time
8 necessary to create and implement SCUSA is prohibitive; the
9 level of program efficiency, as well as optimum allocation
10 of resources, would decline if subjected to the federal
11 budget process; the potential for political manipulation
12 would be disruptive and ever-present; and for the most part,
13 SCUSA's stated purposes are already being accomplished by
14 existing organizations.

15 Last year, over half a million dollars or 57
16 percent of AGMA's annual budget was committed to supporting
17 domestic and international gear standards development.
18 These costs are significantly understated because they do
19 not capture the voluntary time or expense from participating
20 representatives.

21 Participants or their parent companies pay travel
22 and meeting costs, as well devote valuable time to these
23 activities.

24 We are extremely concerned about government
25 accreditation as one of SCUSA's purposes. This stems partly

1 from the government record on existing standards' policies.
2 All appropriate roles, we feel, are already defined in OMB
3 Circular 119.

4 This document declares that it is U.S. policy to
5 use and embrace private sector standardization as well as
6 provide the support and funding to meet these objectives.

7 AGMA is concerned that traditional and useful
8 government roles have already suffered from budget cuts and
9 political concerns to the detriment of gear standardization.
10 One example is found at NIST when as the National Bureau of
11 Standards, maintained traceable metrology artifacts for the
12 calibration of gear-measuring machines. This service is no
13 longer adequately being performed.

14 If the government wants to do something to assist
15 in gear standardization, a good beginning would be to make a
16 serious effort to promote and implement OMB 119 as it is
17 written.

18 One of AGMA's greatest concerns is that we cannot
19 get government representation at standards developing
20 committee meetings. Although certain past participants say
21 they would like to come more often, they cite lack of
22 funding and supervisory support for their absence.

23 Instead of building another layer of government
24 bureaucracy, especially one that disrupts, decelerates, or
25 duplicates the current system, efforts should focus on

1 strengthening the current system to complement legitimate
2 U.S. trade activities.

3 If there are communication or linkage problems
4 between organizations, let us work together to eliminate
5 them, but there is no need to re-invent the wheel.

6 A full review of AGMA's recommendations is
7 provided in our official written testimony which we have
8 submitted and ask that it be entered into the record. The
9 highlights of these recommendations are as follows: There
10 is a role for government, and specifically DOC and NIST.
11 DOC should provide information and feedback pertinent to
12 U.S. and foreign policies on standards, testing and
13 certification issues affecting trade.

14 The National Institute of Standards can comply
15 with industry requests to supply and maintain traceable
16 metrology artifacts which I alluded to earlier.
17 Furthermore, the government should vigorously implement OMB
18 Circular 119 and actively participate in private sector
19 standards development.

20 Congress should provide a system for tax credits
21 to encourage private sector participation in national and
22 international standards committees.

23 The government should translate American national
24 standards into foreign languages and actively promote them
25 in foreign nations, especially third world countries.

1 Government agencies should support and promote
2 government involvement as a participant and partner to, and
3 endorser of, the private sector activities, but not serve as
4 a regulator or accreditor or standards development bodies.

5 And last but not least, the government-to-
6 government traditional roles in trade negotiations,
7 especially with the European Community, should work to
8 ensure that technical trade barriers are not erected as a
9 result of standards harmonization.

10 In conclusion, AGMA believes the current
11 infrastructure for standards is essentially intact and
12 adequate. Any problems which may exist can be corrected by
13 addressing them through existing organizations.

14 The role of ANSI should continue to be one of
15 coordinator of the diverse standards activities occurring
16 across the United States. Also ANSI should continue to be
17 the official U.S. representative to ISO/IEC. The role of
18 the private sector is to hold ANSI accountable for its
19 internal policies. The best way to achieve this is through
20 active participation in the ANSI process.

21 The Department of Commerce should not take on a
22 regulatory role for standards, testing, or certification-
23 related matters. Where health, safety or environmental
24 issues are involved, we feel that other agencies are better
25 equipped to deal with them.

1 All interested parties should work together toward
2 more effective communication and better inter-organizational
3 cooperation. AGAM stands ready to do its part towards these
4 ends. In this way, we feel that we can improve on what
5 needs to be improved on -- change what needs to be changed
6 -- without a duplication of our efforts.

7 Thank you.

8 CHAIRMAN WARSHAW: Thank you, Mr. King. Are there
9 any questions from the panel? Mr. White.

10 MR. WHITE: I heard you say, and I believe you
11 have it in your testimony on page 9, that you've got some
12 costs, some labor costs and direct costs for participation
13 in international standards, and it goes something like this:
14 To the tune of \$23,000 for direct costs and \$36,000 in labor
15 costs.

16 Is that your international standards budget?

17 MR. KING: That is correct. That is the budgeted
18 figures.

19 MR. WHITE: Has that gone up over the last couple
20 of years?

21 MR. KING: Yes, it has.

22 MR. WHITE: It would be helpful for us to the
23 extent you care to share it with us, if you could show us
24 your budgeting for standards activities projected, current
25 and maybe a couple of years ago so we could get a pattern.

1 I know in my own agency -- I'm with the Food and
2 Drug Administration -- your costs for participation in
3 standards activities are similar to what ours were last
4 year. We are increasing ours and I am trying to get a
5 better gauge on what organizations, other organizations are
6 doing, not always necessarily government organizations, in
7 terms of standards costs. It helps me with my budget too.

8 MR. KING: Certainly.

9 MR. WHITE: Thank you.

10 MR. KING: We can submit that to you, a history
11 of what our participation has been.

12 MR. WHITE: That would be very helpful. Thank
13 you.

14 CHAIRMAN WARSHAW: Are there any other questions?
15 John Donaldson.

16 MR. DONALDSON: Mr. King, is AGMA involved in the
17 testing and certification and application side? Or are your
18 concerns exclusively with the standards development side?

19 MR. KING: Well, first of all, let me make it
20 clear that all of our standards, we refer to as applications
21 standards. They are based on application data and
22 application history.

23 As far as certification, we are involved in a
24 self-certification program of which member companies can
25 self-certify that they manufacture or design to AGMA

1 standards.

2 MR. DONALDSON: Thank you.

3 CHAIRMAN WARSHAW: Thank you very much, Mr. King.

4 MR. KING: Sure.

5 CHAIRMAN WARSHAW: We appreciate it. And now Mr.
6 Montwieler of the Industrial Truck Association.

7 MR. MONTWIELER: Good afternoon. My name is Bill
8 Montwieler, and I am the executive director of the
9 Industrial Truck Association.

10 With me today is Matthew Hall of the firm of
11 Dunaway and Cross, ITA's legal counsel.

12 ITA is the international, not-for-profit trade
13 association representing the interests and advancing the
14 goals of manufacturers of forklift trucks and their
15 components.

16 Domestic and foreign companies have equal voting
17 rights in ITA. Among other objectives, ITA is committed to
18 the development of voluntary safety standards that improve
19 forklift truck safety and quality. We also support
20 international trade principles that promote fair competition
21 and the elimination of all unnecessary trade barriers.

22 We believe that these interests can best be
23 reconciled by avoiding unnecessary or counterproductive
24 Federal Government interference in our private domestic
25 system of voluntary standards development, while

1 simultaneously stepping up the government's role in assuring
2 that fair access to foreign standardization efforts is given
3 to U.S. companies. These are the two points that I wish to
4 elaborate on today.

5 Based upon its long experience in safety standards
6 development ITA, firmly believes that the existing systems
7 for developing effective voluntary standards are well-
8 structured, functioning capably, and significantly
9 contributing to overall product safety.

10 It is with some concern, therefore that ITA views
11 the prospect of increased federal regulatory control over
12 standards-making activities, as foreshadowed by the November
13 1989 notice of this hearing and the subsequent December
14 proposal for the creation of a Standards Council of the
15 United States of American, or SCUSA.

16 Although the purpose of this hearing is to gather
17 information relevant to standards development, and while the
18 SCUSA proposal purports to be only a concept to facilitate
19 comments, the fact that consideration is being given to
20 federal regulatory control over standards-making activities
21 is cause for some concern.

22 The SCUSA proposal leads ITA to envision a new and
23 costly bureaucratic jungle that, rather than improve
24 development of effective safety standards, would only
25 further encumber, delay, and discourage what is already an

1 inherent laborious process.

2 ITA would dispute any assumption that voluntary
3 standards development activities are somehow defective and
4 in need of rescue by the Federal Government. ITA's
5 experience is that standardization, testing and
6 certification of programs in the United States are
7 functioning vigorously and effectively to improve product
8 safety.

9 Before embarking on any plan to regulate voluntary
10 standards systems in the United States, NIST should step
11 back and consider the progress that those system have
12 achieved without federal regulatory control.

13 ITA's participation in safety standards
14 development leads us to conclude that the existing private-
15 based structure is functioning effectively.

16 Domestically, ITA is a member of the American
17 Society of Mechanical Engineers/American National Standards
18 Institute B 56 standards committee for powered and non-
19 powered industrial trucks, and of several of its
20 subcommittees.

21 The B 56 committee's efforts, sponsored by the
22 ANSI, have resulted in nationally recognized voluntary
23 standards for forklift trucks, including the B 56.1 standard
24 for high lift and low lift trucks, the standard for guided
25 industrial vehicles, and the standard for rough terrain

1 forklifts.

2 Subcommittee membership is comprised predominantly
3 of representatives from the private sector, including
4 manufacturers, dealers, purchasers, users and safety
5 experts.

6 The membership is rounded out by representatives
7 from the Army and the Occupational Health and Safety
8 Administration, thus providing an appropriate mixture of
9 public and private sector representation.

10 Proposed standards are subject to extensive public
11 comment to ensure that all interested parties have notice
12 and opportunity to be heard in order to provide input to the
13 standards development process. The process is one of
14 diversity, balance and openness.

15 Of course, in a world of constant technological
16 change, the process does not end with a standard's
17 publication. Consistent with the comment to always improve
18 product safety, the B 56 standards are revised regularly to
19 reflect state-of-the-art safety and quality assurance.

20 For example, the ASME B 56.1 subcommittee most
21 recently revised the national voluntary standard for low and
22 high lift trucks in 1988. This was the fifth revision to
23 the standard since it was first published in 1955,
24 reflecting ASME's thorough review policies. Similarly, the
25 ASME/ANSI B 56.5 and B 56.6 standards have also been

1 reviewed and revised.

2 But ITA's efforts go beyond the association's
3 membership on ASME committees and subcommittees. Over the
4 years, ITA has developed recommended practices covering
5 numerous aspects of forklift truck safety. Typically these
6 recommended practices are forwarded to the cognizant ASME
7 and ANSI bodies for their consideration.

8 And like the ASME/ANSI standards, ITA recommended
9 practices are regularly updated to incorporate the latest
10 advances within the forklift truck manufacturing industry.

11 The efforts of ITA member companies to develop
12 voluntary safety standards reflecting state-of-the-art
13 quality demonstrates their commitment to product safety, and
14 I am confident in saying that those efforts have been
15 successful.

16 Given that success, ITA cannot understand what
17 objectives would be served by expanding government input to,
18 and perhaps control over, the private standards development
19 system.

20 ITA's participation in international standards
21 efforts is principally through the International
22 Organization for Standardization. ITA cooperates in the ISO
23 process through its membership on the B 56.11 committee
24 which comprises the U.S. Technical Advisory Group to the ISO
25 TC 110/SC 2 committee.

1 The US TAG meets twice a year to discuss issues
2 relevant to international forklift standards and to
3 formulate appropriate U.S. positions on particular issues
4 for input to the ISO committee through ANSI.

5 Through such activity, the US TAG has assumed a
6 leadership role in formulating and improving international
7 safety standards applicable to forklifts. More importantly,
8 ITA perceives the ISO Committee to be conscientiously
9 pursuing the development of technically valid standards and
10 improving the safety and quality of forklifts.

11 For example, this last week I attended on behalf
12 of ITA, an ITA hosted meeting of the ISO TC 110/SC 2
13 committee here in Washington where consideration was given
14 to, among other items, recommendations concerning the
15 strength of fork arms, the safety code for powered
16 industrial trucks, a stability test for high lift order
17 picking trucks, and various other project.

18 ITA has found its participation in ISO standards
19 activity to be rewarding, notwithstanding the inherent
20 cumbersomeness of a process involving different languages,
21 different markets, and different procedures.

22 While the Government might play a useful role in
23 enhancing U.S. companies' ability to participate in
24 international standards-setting efforts, assumption of that
25 role should not come at the expense of a well-established

1 private system that has long served us in this country.

2 We see no need to replace effective private sector
3 involvement in international standards work with a
4 monolithic government involvement. Such a substitution
5 would, in our view, only add unnecessary complication and
6 delay to a highly specialized and technical process.

7 Now that I have discussed the activities that the
8 Government should not pursue, let me turn to those
9 activities where government involvement can be beneficial to
10 U.S. industry.

11 In ITA's view, Government can best assist U.S.
12 industry by facilitating access to, and communication of,
13 regional and international standards development activities.
14 The primary goal of a international standards development
15 programs, as with any national program, should be to improve
16 product safety by establishing technologically valid,
17 commercially feasible product standards.

18 To prevent development and publication of
19 inadequate standards, as well as the misuse of standards and
20 certification requirements to create technical barriers to
21 trade, it is important to ensure that interested parties
22 have access to such programs as observers, if not as actual
23 participants.

24 Such access is not always made available. ITA has
25 been particularly frustrated in gaining observer status to

1 the rapid-fire proceedings of CEN/CENELEC. Consequently,
2 ITA continues to support ANSI's efforts to gain observer
3 status to CEN/CENELEC meetings and encourages the Government
4 to assist ANSI in obtaining such status.

5 Similarly, ITA continues to encourage the U.S.
6 Government to press for manufacturer testing and self-
7 certification of forklift trucks destined for the European
8 market.

9 I emphasize, however, that as with national and
10 international standards development efforts, the government
11 should play a supporting role in regional standards-making
12 activities.

13 In sum, ITA urges NIST to recognize that existing
14 systems for national, regional, and international standards
15 development are functioning well, and consequently to
16 refrain from regulating or otherwise disrupting the present
17 structure.

18 At the same time, NIST or other appropriate
19 government authorities should use their influence to improve
20 our private sector's access to standards-setting processes
21 abroad. By assisting rather than usurping the private
22 sector's role in international standards-setting, the
23 government will best advance the twin goals of safety and
24 fair trade.

25 On behalf of ITA, I have appreciated the

1 opportunity to make this presentation, and would be happy to
2 try to answer any questions you might have.

3 CHAIRMAN WARSHAW: Thank you very much, Mr.
4 Montwieler, we appreciate it. If you would too, if you
5 could leave a hard copy of the text with the transcriber.

6 MR. MONTWIELER: I will do so.

7 CHAIRMAN WARSHAW: Are there any questions of Mr.
8 Montwieler? Mr. Donaldson?

9 MR. DONALDSON: If I remember correctly, there
10 exist some EC directives and perhaps standards in the area
11 of the safety of the forklift truck. Presumably, as you
12 have indicated, you are interested in the CEN/CENELEC
13 activities.

14 Are you finding, conceding for the moment that you
15 haven't got a seat at the table, which is fairly well-
16 recognized across the board, are you finding that you are
17 having access to the information that you want? Are you
18 getting informed and are you able to at least keep track of
19 what is going on? Or is the lag time impeding what you
20 might do?

21 MR. MONTWIELER: We have a small session
22 following the ISO meeting in the ITA office last week and I
23 mentioned that this meeting was coming up and I sure as heck
24 would like to be able to tell the members of this group that
25 we were receiving CEN and CENELEC documents, but that I was

1 concerned because we had not.

2 One of the suggestions made by the ISO delegates
3 from Europe was that since ITA consists of companies like
4 Caterpillar and Heister and Clark, all of whom have
5 companies abroad, that we should be able to get the CEN and
6 CENELEC documents from them.

7 What we find, however, is that since it is a
8 European organization, the subsidiaries of the corporations
9 are somewhat reluctant, maybe even substantially reluctant
10 to supply us with those documents.

11 What we find is that we get the documents late if
12 we get them at all.

13 However, after I made that little speech, a FAX
14 went off to one of the headquarter offices of our sister
15 association in England and sure enough in the mail this
16 morning I got inundated with more material than I will be
17 able to organize in the next month.

18 So it is a question now of perhaps too much data.
19 It certainly would be helpful -- we have asked permission
20 several times to sit and observe and have been rejected.
21 There is an overall European association for manufacturers
22 of forklift trucks and we have been invited to their
23 meetings and they come to ours.

24 We are an unusual association in that both
25 European, Japanese and American corporations all have equal

1 representation in ITA, so we have taken democracy one step
2 farther, with all of its problems.

3 MR. DONALDSON: Part of your answer anticipated my
4 next question which was if you had any sense of, in terms of
5 the difficulty in getting the information, whether it is
6 simply that the process isn't really in place yet and there
7 is a certain amount of ignorance, or in fact, that there is
8 a wilful dragging of the feet.

9 I think that the last part of your answer may
10 indicate that we just haven't gotten things quite working
11 yet.

12 MR. MONTWIELER: In the association office, we
13 certainly don't have it. We have got to count on our
14 members to volunteer their peoples' time to come and
15 participate and that of course, is added expense.

16 MR. DONALDSON: But nevertheless, CEN and CENELEC
17 do have an obligation to keep us informed of their
18 activities through a committed mechanism through ANSI that
19 we should be leaning on that to make that work as well, and
20 you should not have to rely exclusively on membership
21 involvement.

22 You may have members who aren't going to cooperate
23 as well as this last one has, but there are mechanisms that
24 are in place and we ought to make these work.

25 MR. MONTWIELER: I agree.

1 MR. LEIGHT: How many foreign members do you have?
2 You mentioned that you have both domestic and foreign
3 members.

4 MR. MONTWIELER: There are 22 members of the
5 Industrial Truck Association in the United States. Of that
6 22, 6 are Japanese, 4 are European, and the remainder are
7 U.S. companies. They range in size from sales of about \$5
8 million up into the billion dollar range.

9 CHAIRMAN WARSHAW: Okay, thank you very much, Mr.
10 Montwieler. We appreciate it.

11 I would like, if the American Gear Association and
12 ITA would like to leave, then we could have the Plumbing
13 Manufacturers Institute at the table here. Whoever is
14 hiding behind that podium, I can't see.

15 We very much appreciate your taking the time to
16 give us your comments.

17 (Pause.)

18 CHAIRMAN WARSHAW: You are the Automotive Industry
19 Action Group. Do we have the Plumbing Manufacturers
20 Institute here?

21 Yes, could you please join us at the podium?

22 MR. MARTIN: Is this operating here?

23 CHAIRMAN WARSHAW: Yes. It was operating after
24 lunch. We have David Martin, the Plumbing Manufacturers
25 Institute.

1 MR. MARTIN: I do indeed. Would you care for a
2 copy of this?

3 CHAIRMAN WARSHAW: Yes, if you have it with you,
4 that would be fine.

5 MR. MARTIN: Okay.

6 CHAIRMAN WARSHAW: Mr. Martin, please feel free to
7 offer your oral comments.

8 MR. MARTIN: Thank you.

9 CHAIRMAN WARSHAW: And introduce your associate
10 too please.

11 MR. MARTIN: Mr. Chairman and members of the
12 panel, my name is David Martin. I am director of government
13 affairs for the Plumbing Manufacturers Institute. With me
14 at the table is our private counsel, Mr. Robin Grover who
15 represents us on various issues from a legal point of view.

16 The Plumbing Manufacturers Institute is a national
17 trade association representing the majority of domestic
18 manufacturers of plumbing fittings and fixtures. Our
19 industry plays a vital role in supplying the residential,
20 commercial and institutional construction markets with
21 products that ensure that Americans have the safest,
22 cleanest and most effective plumbing systems in the world.

23 PMI and its member companies have long
24 participated in the important standards development process
25 through active involvement with American National Standards

1 Institute, the American Society of Sanitary Engineers, and
2 other standards bodies.

3 The plumbing industry strongly believes that the
4 Federal Government should not replace or duplicate the
5 private voluntary system that has operated so successfully
6 over the years. We contend that the private sector must
7 continue to play the leading role in product standard
8 development on a worldwide basis so that industry can
9 address the emergence of a global economy in the best
10 interests of the United States.

11 There are several reasons why the Federal
12 Government should allow the private sector to continue to
13 lead the way in the development of international standards.
14 First, the current voluntary standards system is sound and
15 certainly does not need a major overhaul.

16 Thus, we believe there is no need for the proposed
17 Standards Council of the United States of America.

18 Second, we believe there is no justification for
19 SCUSA or any government entity to regulate existing private
20 standards organizations through the accreditation of these
21 private bodies.

22 Third, we believe that the existing testing and
23 certification process is an extremely complex problem in the
24 international arena, and we further believe that the
25 establishment of a government infrastructure before the

1 international system and its needs are known to American
2 business could well impede and negate the on-going efforts
3 of the private sector to coordinate with foreign standards
4 organizations activities to meet these problems.

5 The plumbing manufacturing industry is currently
6 in the transition of developing fittings and fixtures that
7 utilize less water in their operation. When I utilize the
8 term fittings, I am referring to such things as showerheads
9 and lavatory kitchen faucets and aerator flow devices. When
10 I talk about the term fixtures, I am talking about ceramic
11 ware -- that is to say toilets or water closets as we call
12 them, and urinals.

13 ANSI committee panels, as an example, have been
14 very useful by providing not only their technical and
15 professional assistance, but most importantly, a forum in
16 which our industry and other parties can reach a consensus
17 standard for these plumbing product that I have just
18 identified.

19 These performance standards help ensure that our
20 industry and others provides consumers with showerheads,
21 faucets, aerators, water closets and urinals that reflect
22 the state-of-the art for water conservation and other
23 important operating requirements.

24 In summary, we believe that the present ANSI
25 structure and operation has enabled industry as well as

1 government and private officials to participate effectively
2 in the critical standards development process so that
3 domestic plumbing products are tested, certified and labeled
4 in a manner that best reflects the public interest.

5 For the plumbing industry, there is another basis
6 for its concerns with the proposal under consideration
7 today. The plumbing and building codes in this country rely
8 extensively and often decisively on relevant product
9 standards. From the plumbing manufacturers' standpoint,
10 there has often been considerable confusion in the model
11 plumbing model code area, as opposed to the standards area.

12 The sources of this confusion include but are not
13 limited to historical attitudes by all parties toward the
14 model plumbing code, inconsistent provisions among the
15 various codes, interpretive differences by the code bodies
16 and disparate views on what truly constitutes a model
17 plumbing code in this country.

18 In addition not all model codes recognize the same
19 standards or standards development organizations for
20 plumbing products.

21 Lastly, there are some code bodies that impose
22 testing fees and other administrative requirements which
23 most plumbing manufacturers find both unnecessary and
24 onerous.

25 We believe that any attempt by the Federal

1 Government to superimpose SCUSA or any other government
2 entity over international or domestic standards would
3 compound the model code problems by adding another layer of
4 bureaucracy.

5 The plumbing industry would be remiss if it did
6 not address the many positive roles that the Federal
7 Government could assume in support of both domestic and
8 international standards organizations and their activities.

9 First, the government should take a more prominent
10 role in sponsoring and promoting educational programs on the
11 importance of standards to the U.S. economy, particularly
12 those now established or anticipated in the international
13 market.

14 Second, the Commerce Department should propose to
15 Congress, and Congress should adopt an extension of the
16 research and development tax credit for standards-related
17 activities.

18 Third, there should be a strong commitment and
19 continued participation and involvement of government
20 personnel in the voluntary standards infrastructure in the
21 international area.

22 Fourth, there should be active government-to-
23 government discussions on international standards activities
24 and their relationship to the domestic economies of all
25 countries and regions of the world.

1 Lastly, there should be effective intra-government
2 agency cooperation and coordination regarding international
3 and domestic standards policies.

4 In closing, PMI wants to emphasize the important
5 role that private standards development bodies have played
6 and must continue to play in both the domestic and
7 international arenas.

8 Any future involvement by the Federal Government
9 in domestic and international standards matters must
10 accommodate itself to the established pre-eminence of the
11 private sector. The Federal Government simply, in our
12 opinion, cannot replace the historical operating
13 effectiveness and depth of knowledge of the private sector
14 in the area of international standards activities.

15 Thank you for the opportunity to present the views
16 of the plumbing manufacturing industry on this important
17 public policy issue.

18 We would be pleased to answer any questions that
19 you may have.

20 CHAIRMAN WARSHAW: Thank you very much, Mr.
21 Martin. Are there any questions? Mr. Leight.

22 MR. LEIGHT: You mentioned that one of the needs
23 is to address the problem of how to handle the separate
24 codes. We also heard that yesterday from people from CABO
25 and we are also aware of the fact that in many other areas,

1 not just in the plumbing area, construction area, the
2 Europeans also ask who do we deal with? You have 50 states
3 and 50 different systems.

4 I wonder if you have any specific suggestions as
5 to how we might go about getting this internal
6 harmonization, if you will, such as in the building codes
7 area?

8 MR. MARTIN: Well, the industry has for some time
9 addressed this question in another area and that is related
10 to water conservation and it has historically been our
11 opinion that uniform national standards for plumbing
12 products are not the appropriate way to address the
13 solution, but over the passage of time, we have seen a
14 number of states, as an example, come forward with their own
15 solutions to this particular issue.

16 I guess the best answer that I can provide for you
17 is that uniformity would be the preferred goal for our
18 purposes, but given the existing domestic system with these
19 many number of model codes, I specifically do not have a
20 recommendation to you on how to address that issue.

21 Do you, Robin?

22 MR. GROVER: No, but we will supplement that in
23 our comments.

24 CHAIRMAN WARSHAW: Thank you. Please, yes, and
25 the comment period is open until June 5th.

1 MR. GROVER: Right.

2 CHAIRMAN WARSHAW: Mr. McCutcheon.

3 MR. McCUTCHEON: Mr. Martin, turning the view
4 overseas instead of internally to the states, I was
5 wondering if you or PMI have any news on the testing and
6 certification, particularly as it relates to acceptance of
7 U.S. plumbing products in other national or regional
8 markets?

9 MR. MARTIN: Would you repeat that please?

10 MR. McCUTCHEON: Well, I am primarily concerned
11 about if you had any views, because you didn't happen to
12 address it particularly, on testing and certification
13 programs that are exercised overseas, particularly as they
14 relate to U.S. products going into those markets.

15 MR. MARTIN: Right now the plumbing manufacturing
16 industry in this country prefers to utilize, for the
17 purposes of testing and certification and performance, the
18 American National Standards Institute standard setting
19 entities, and we would prefer to use those for the purposes
20 of international product development as well.

21 CHAIRMAN WARSHAW: Mr. Donaldson wants to follow-
22 up on that question because I was a little confused myself
23 with the answer.

24 MR. DONALDSON: I'm aware that there is work in
25 the EC on the Eurocodes which presumably extend rather

1 broadly. I am not personally aware of the details as to
2 what it covers but presumably it would cover all the facets
3 involved in the building industry.

4 Do you see implication of what is going on in that
5 context or PMI's area of concern?

6 MR. MARTIN: Well, PMI has traditionally, as I
7 said, taken an active role in standards setting process in
8 this country by virtue of its members participating or
9 sharing its various panels, the ASME sub-panels to the ANSI
10 code for our products.

11 So actively involved in the domestic scene in that
12 part of the process, but to my knowledge, we have not
13 heretofore taken an active role overseas vis-a-vis the
14 international code setting bodies such as EC 92 or other
15 entities.

16 Today our efforts have been limited basically to
17 the domestic scene through ANSI.

18 MR. DONALDSON: Okay, so up until now, the answer
19 as of now is no.

20 MR. MARTIN: That is correct.

21 MR. DONALDSON: Thank you.

22 CHAIRMAN WARSHAW: Ms. Moore.

23 MS. MOORE: I have an even more general question
24 to follow that up.

25 To what extent do your members actually

1 participate in the international market?

2 MR. DAVID MOORE: Excuse me, I can't hear you.

3 MS. MOORE: To what extent do your members
4 actually participate in the international market? Do they
5 export a lot? Have they met with a lot of trade barriers
6 and so forth?

7 MR. GROVER: Our major members tends to export a
8 lot, particularly to the EC and some to Mexico, but to date,
9 the international market has not been that significant for
10 many of our members, especially the smaller manufacturers.

11 I think that will change with the increasing
12 globalization of the economy.

13 MR. DAVID MILLER: Traditionally what has happened
14 is that very few of the manufacturers of fixture products
15 have manufactured on-shore and exported for the simple
16 reason that the weight is such that it doesn't make it cost
17 effective.

18 Many of our major members manufacturers in Europe,
19 Western Europe, the Far East, and even in South America are
20 in an indigenous basis now. For the fittings or the
21 faucets, it is a different consideration but to my
22 knowledge, most of that production that is now developed is
23 on-site in those particular countries or residences. We are
24 at limited export at this point in time -- not to the extent
25 we would like to see it, let's put it that way.

1 CHAIRMAN WARSHAW: Mr. Donaldson.

2 MR. DONALDSON: Just for my own personal
3 edification, in terms of sales within the United States
4 today, what fraction then is captured by the domestic
5 production?

6 MR. DAVID MILLER: By foreign production.

7 MR. DONALDSON: By domestic production -- well,
8 either way, domestically or otherwise.

9 MR. DAVID MILLER: The lion's share of products
10 sold in this country retail through the construction markets
11 and are manufactured in this country. There is a small
12 portion of fittings, as an example, what we call knock-offs,
13 that come in from such countries as Taiwan and others
14 overseas, but that is a limited volume of the products sold
15 in this country.

16 MR. GROVER: Imported fittings would have a much
17 larger share of the so-called do-it-yourself market, for the
18 fixer-upper segment of the market.

19 But I would say overall in terms of domestic
20 fittings sales, I would guesstimate -- and that would be a
21 guesstimate which may not be correct -- about 80 to 85
22 percent would be supplied by the domestic manufacturer.

23 MR. DONALDSON: That would exclude off-shore
24 production by domestic firms.

25 MR. GROVER: I believe so, yes.

1 MR. DONALDSON: Thank you.

2 MR. GROVER: Again, we will clarify that, but I
3 would say 80 to 85 percent of the domestic fittings sales
4 would be supplied by the domestic manufacturers, also for
5 fixtures as well -- probably 75 to 80.

6 CHAIRMAN WARSHAW: Are there any more questions
7 from the panel?

8 I want to thank you very much, Mr. Martin, for
9 your contribution.

10 MR. DAVID MILLER: Thank you. We will provide you
11 with a follow-up to your questions.

12 CHAIRMAN WARSHAW: If you have anything to add
13 between now and June, we would appreciate it.

14 The other Mr. Martin of the Automotive Industry
15 Action Group.

16 MR. GERUS: Thank you, Dr. Warshaw. First of all,
17 I would like to mention that I am not John Martin, I'm Mike
18 Gerus. I am standards coordinator for AIAG. Mr. Martin,
19 who is our managing director, had to return to Detroit today
20 so I will be speaking in his place.

21 First, the AIAG would like to thank NIST for
22 holding this forum. It is both healthy and important to
23 review the processes that drive the U.S. economy, to
24 determine if they are still relevant and effective.

25 A few words about the AIAG. The Automotive

1 Industry Action Group is a not-for-profit trade association
2 representing the domestic motor vehicle makers. We were
3 established in 1982 to both develop and encourage the use of
4 standardized productivity tools in the North American Motor
5 Vehicle Industry.

6 Our focus is on Electronic Data Interchange or
7 EDI, automatic identification methods and devices such as
8 bar-coding and radio frequency transponders, packaging --
9 both expendable and returnable, CAM/CAD technologies, and
10 quality control.

11 We also work to develop common business practices
12 utilizing those tools.

13 Currently we have 750 corporate members. They
14 include 18 firms building passenger cars, heavy trucks and
15 off-road vehicles.

16 They are joined by their suppliers of both
17 production and indirect material as well as service
18 providers in banking, telecommunications, transportation,
19 insurance and academia.

20 Most of our larger numbers have extensive
21 facilities in Canada, Mexico, Europe, Australia and South
22 America.

23 Since our inception, we have made a conscious
24 decision to first evaluate the work of other standards
25 organizations such as ANSI's ASCX 12 committee, to determine

1 if we could live with what industry had already produced.

2 During the last few years, we have also sought out
3 the work of international standards groups, such as the
4 United Nations Working Party 4 on EDIFACT initiative, ISO's
5 TC 154 and the JTC 1, the VDA in Germany and the AIAG's
6 counterpart in Europe, Odette.

7 We have also expanded our domestic links to
8 include the American Society for Quality Control, the SAE,
9 the American Supplier Institute, the Aerospace Industry
10 Association and the Society of Manufacturing Engineers.

11 At the same time, we have begun projects that had
12 the direct involvement of the EPA, DoD and U.S. Customs.

13 Over 1000 AIAG volunteers meet every month to
14 increase their company's effectiveness and competitiveness.
15 They are the reason that the standards either endorsed by or
16 directly developed through the AIAG are used on a daily
17 basis by over 3,000 North American firms.

18 Looking back, we can see that our primary strength
19 was allowing all parties -- customers and suppliers -- to
20 develop a consensus solution in a non-threatening
21 environment.

22 This open marketplace of ideas produced AIAG
23 standards that work. In our written position paper, we
24 spoke directly to the issue of one organization establishing
25 itself as the final authority for standards. We concluded

1 that none of us can or should take on that task alone.

2 We, at AIAG, join with many of our fellow
3 presenters in strongly discouraging the formation of a new
4 government organization to oversee all standards work.

5 What should be the role of the U.S. Government in
6 the standards making process?

7 There are several things that could be done.
8 First, the U.S. Government must take effective measures to
9 coordinate its own use of standards.

10 While we at AIAG enjoy good relations with
11 individuals at EPA, DoD and Customs, these relations are the
12 result of forward thinking on the part of some sincere
13 federal employees looking to do the right thin despite a
14 lack of policy or strategic direction from their own
15 management.

16 We are afraid that if these individuals were to
17 change jobs, the initiatives they have put forth at AIAG
18 would die. Working with industry as partners in the
19 standards making process must become a way of life for
20 federal agencies.

21 Part of the problem is education. We know that it
22 was a long, hard road to convince individuals and management
23 at AIAG member companies that appropriate use of standards
24 can make the business process more effective. For much of
25 the auto industry, the not-invented-here syndrome was and is

1 a way of life. We suspect that it is as big a problem
2 within the U.S. Government.

3 Yesterday a presenter commented that he doubted
4 that a single person in this auditorium didn't understand
5 the crucial role of standards. If the people in this room
6 are responsible for all the decisions in industry and
7 government, then that statement is meaningful.

8 But we know that's not the case. And then the
9 statement becomes dangerous. We cannot become insulated.
10 We -- industry and government -- must make education a
11 primary focus.

12 From the classroom to the executive suit to the
13 White House, standardization should bring to mind not images
14 of stifling creativity or mediocre products, but instead
15 should call to mind that standards, while hardly a cure-all,
16 can be a powerful force that allows us to focus our
17 energies and resources on those aspects of our culture --
18 such as creative, flexible thinking -- that allow this
19 country to compete and excel in a global economy.

20 Let's not waste our brain-power re-inventing the
21 wheel.

22 In addition, the U.S. Government could act as a
23 catalyst or facilitator. For instance, virtually every
24 presenter yesterday spoke about the high cost of travel to
25 attend standards meetings. Several of them suggested that

1 the U.S. Government subsidize that activity, perhaps through
2 grants.

3 While we believe that this proposal has merit and
4 should be explored further, we think it may be short-
5 sighted.

6 Instead, we propose that the Federal Government
7 work with industry and academia to develop an effective and
8 comprehensive teleconferencing strategy. This would include
9 audio and video.

10 By utilizing appropriate technology, access to the
11 standards development process can be increased at a
12 relatively small cost. For example, we held a
13 teleconference at AIAG that involved parties across the
14 country. The total cost for that dialogue was under \$200
15 versus the several thousand dollars it would have been in
16 airfare.

17 I personally communicate on a daily basis with
18 individuals at other standards groups -- both foreign and
19 domestic -- via electronic mail and FAX. This is the way we
20 must go.

21 The AIAG recognizes that because of time zone
22 differences, that some may find teleconferencing
23 unattractive. We do not think that this is as great a
24 problem as some suggest. Perhaps there are cultural or
25 personal practices that are barriers to using

1 teleconference. These may be overcome by using again the
2 appropriate levels of technology.

3 In summary, the AIAG feels that there is a lot the
4 Federal Government can do to help improve U.S.
5 competitiveness. However, none of that can occur in a
6 vacuum, nor through the establishment of another
7 bureaucracy.

8 We are all integral parts of a global economy.
9 Our future depends on how soon we realize that and take the
10 right steps to avoid being an also-ran.

11 To re-state our position, we oppose the creation
12 of a federal oversight council on standards. We recommend a
13 comprehensive review of current government policies
14 regarding standards and the development of a strategic plan
15 which defines appropriate methods for working with industry.

16 Third, we recommend that industry, academia and
17 government pull together on the issues of teleconferencing
18 and education.

19 Thank you for this opportunity to speak to the
20 group.

21 CHAIRMAN WARSHAW: Thank you very much, Mr. Martin
22 we appreciate it. Are there any questions of Mr. John
23 Martin? Or his substitute?

24 MR. GERUS: That's okay. I'll answer to any name.

25 MR. LEIGHT: Jerry who?

1 MR. GERUS: Mike Gerus.

2 CHAIRMAN WARSHAW: Would you spell the last name?

3 MR. GERUS: G as in George, e-r-u-s.

4 CHAIRMAN WARSHAW: Thank you. Everybody spelled
5 it with a J.

6 MR. GERUS: It is non-standard.

7 CHAIRMAN WARSHAW: I appreciate it. Your remarks
8 were very well put and if there are no questions, then I
9 want to thank you both. Oh, excuse me, Mr. Donaldson.

10 MR. DONALDSON: In terms of the teleconferencing
11 that you referred to that just took place, is this a first
12 or have you been doing this for some time? What has your
13 experience been with that?

14 MR. GERUS: We have been experimenting with it on
15 and off for about a year. The primary obstacle, it would
16 seem, at least in our experience, has been cost and these
17 have all been audio conferences, however we have seen
18 services come on to the market in the last six months which
19 suggest that certain audio conference and to a limited
20 extent, video conferencing is now economically cost
21 effective.

22 But that is relatively recent, I mean in the last
23 six months or so. I think as an organization that we will
24 push to use the teleconferencing much more simply because it
25 allows greater access to the process. We've got a lot of

1 people scattered out all over the country who should
2 participate.

3 MR. DONALDSON: When you say cost, was this cost
4 compared with what an individual participant would have
5 experienced had he or she had to travel to a meeting and all
6 the out-of-pocket costs, it was still high compared with
7 that initiative?

8 MR. GERUS: Even then it was only slightly more
9 cost efficient. We have some meetings where 50 people come
10 from across the country, Canada and occasionally Europe
11 every other month and the total cost in terms of travel
12 budget probably exceeds \$25,000. That's not counting the
13 lost labor of those individuals which is significantly
14 higher, I would imagine.

15 So it just seemed that in order to be
16 effectiveness, the meetings have to occur and we have to
17 have a good method to do that. I think teleconferencing is
18 a technology that has arrived.

19 MR. DONALDSON: You were talking then of out-of-
20 pocket costs and you were considering labor as a sunk cost.

21 MR. GERUS: Labor was not a factor we had factored
22 in, the actual loss of labor of those individuals.

23 MR. DONALDSON: All right.

24 MR. GERUS: That would certainly double it and
25 perhaps triple the cost.

1 MR. DONALDSON: Are you aware of any other
2 standards developing agencies that have had any experience
3 with this?

4 MR. GERUS: No, I am afraid not. I did work with
5 the Map Top Cals Group that did do some teleconferencing and
6 that was an ad hoc activity and it seemed to work quite
7 well.

8 We had people from overseas as well as domestic
9 companies conversing over a six month time span, and I know
10 for a fact that that made my participation feasible. There
11 was just no way I could fit in another meeting in my agenda
12 last year, but nothing on a formal basis across the
13 organization.

14 MR. DONALDSON: It sounds very interesting.

15 CHAIRMAN WARSHAW: Thank you very much.

16 MR. GERUS: Well, you're welcome.

17 CHAIRMAN WARSHAW: Thank you, gentlemen. We will
18 now take a break. I would like to reconvene at five after
19 three. That would allow us then to finish a little earlier
20 today, so five after three please.

21 (Whereupon, a brief recess was taken from 2:50
22 p.m. to 3:05 p.m.)

23 CHAIRMAN WARSHAW: Will the Water Quality
24 Association please come forward?

25 MR. GROVER: Yes, sir. I am neither Peter Censky

1 or William C. Ives which are both listed in the statement
2 which I have given to you.

3 Instead I am Robin W. Grover, and I am associate
4 general counsel for the Water Quality Association, WQA.

5 WQA is the international trade association
6 representing the manufacturers, suppliers, distributors and
7 retailers of point-of-use, water quality improvement
8 products.

9 These products and the systems containing them
10 utilize a variety of technologies to remove a broad range of
11 contaminants from drinking water.

12 WQA has nearly 3,000 members and a staff of 25.
13 It maintains a very active state and federal government
14 relations effort; tests and certifies industry products; has
15 developed and administers a widely used, both nationally and
16 internationally, professional education certification
17 program; has published guidelines for product advertising
18 and promotion; and funds an independent panel to handle
19 complaints of violations of these guidelines.

20 More importantly for the purposes of these
21 hearings, WQA and its predecessor organizations have over 30
22 years' experience in publishing and administering voluntary
23 product standards. These standards cover a variety of
24 industry products including water softeners, reverse osmosis
25 systems, and various types of water filters. Standards for

1 products utilizing other technologies are in the advanced
2 planning stage.

3 In addition, WQA staff personnel and members have
4 participated in other standards developments efforts for
5 pint-of-use water quality improvement products. WQA was a
6 founder and is an active participant in Aqua-Europa, a
7 European association currently involved in European
8 standards development for industry products.

9 WQA congratulates the Office of Standards Services
10 for providing the impetus and facilities for these hearings.
11 It believes these hearings are important for several
12 reasons.

13 First, merely by being held, they focus public and
14 governmental issues, thereby elevating them to a level of
15 importance that they have long deserved but have not
16 enjoyed.

17 Second, they provide a forum, a standards summit
18 if you will, where those of us deeply involved in standards
19 development can meet, exchange views, consider fresh ideas
20 and, hopefully, offer constructive suggestions for the good
21 of all.

22 Third, this meeting and others of a similar nature
23 that could beneficiarllly follow, should provide the
24 springboard for an even more forward looking and meaningful
25 range of standards development activities in this country,

1 and more effective representation of U.S. standards
2 interests abroad.

3 The Water Quality Association represents an
4 industry consisting of many small to medium-sized firms,
5 most of which were entrepreneurial in origin and remain so
6 today in spirit.

7 Attitudes supportive of free enterprise and
8 voluntary association are common throughout the industry.
9 Our industry has a healthy skepticism about any increased
10 government involvement in traditionally voluntary activities
11 such as standards development.

12 These are some of the reasons our industry and WQA
13 support the American National Standards Institute, ANSI, and
14 the vital role it has played and is playing on both the
15 domestic and international standards developments scenes.

16 ANSI's leadership and professional staff are
17 largely responsible for the considerable degree of
18 procedural harmony that now exists within the U.S. standards
19 development community. ANSI has been increasingly energetic
20 in promoting U.S. interests on international standards
21 organizations, committees, and working groups.

22 ANSI's information pieces are frequently the only
23 source of current information on international standards
24 matters.

25 The Water Quality Association recognizes that in

1 order to achieve the goals and correct the deficiencies
2 outlined above, a somewhat expanded federal role could be
3 useful.

4 However, any expanded federal involvement in
5 standards development activities must be thoroughly
6 considered and demonstrably beneficial. It should in no way
7 replace the carefully constructed, time tested and effective
8 and voluntary private standards efforts about which we can
9 all be justly proud.

10 Some of our industry's firms have modest personnel
11 and financial resources to devote to standards activities
12 Many others have severely limited or no such resources.

13 The collective technical and practical expertise
14 of personnel working for these firms -- both large and small
15 -- is impressive. They work on the cutting edge of
16 technical developments, and must continue to do so if the
17 quality of the public's drinking water does not deteriorate
18 to the level where health is seriously threatened.

19 Yet, it is a fact that this substantial expertise
20 is often not tapped for direct use in standards development,
21 especially by regional and international bodies. There are,
22 of course, many reasons for this. Some of them follow: Too
23 often, what industry expertise there is must be filtered
24 through several layers of bureaucracy before it reaches
25 those actually writing standards.

1 Thus, as a practical example, a technical expert
2 working for a small company would convey his technical and
3 economic feasibility judgments to his trade association's
4 technical director, who would then raise them with the
5 association's Technical Committee, who then would refer them
6 to another, separate technical organization, or to the staff
7 or a committee of a national coordinating body who would
8 then pass them on to the U.S. Representative on an
9 international standards body.

10 Hopefully, that representative would have them in
11 mind when he or she sits down to begin writing a standard.

12 Clearly, the judgments that the expert first
13 presented stand a very good chance of being substantially
14 diluted by the time they reach -- if in the fact, they do
15 reach -- those responsible for hammering out the language of
16 a draft standard.

17 WQA believes it is most important to adjust or
18 restructure the present standards development hierarchy to
19 ensure that the substantial technical and practical
20 expertise possessed by many in the water quality improvement
21 industry promptly and directly reaches those actually
22 writing standards, especially international standards.

23 As far as costs go, put quite simply and directly,
24 many small firms in the drinking water treatment industry
25 cannot afford to finance their full participation in

1 standards development activities.

2 While many permit, and even encourage, their
3 personnel to participate in those standards developments
4 activities -- attend meetings, join organizations, do the
5 necessary paperwork, etc. -- they find the travel and
6 meeting attendance costs virtually prohibitive, especially
7 those associated with the increasingly important
8 international meetings.

9 Surely it is not in the best interests of the
10 United State to leave representation on international -- and
11 to a lesser extent, national -- standards writing bodies
12 exclusively in the hands of those who may have sound
13 technical background, but who lack the broad experience
14 required to reflect a well-rounded, balanced industry
15 perspective.

16 A source of funding for those under severe
17 financial constraints should be found and reasonable
18 allocation procedures promptly established, maximizing the
19 use of trade associations and other private organizations
20 for that purpose.

21 WQA believes it is necessary for American industry
22 to have more comprehensive, more current information on
23 national and international standards development matters.

24 The ANSI Reporter and the ANSI Standards Action
25 are major steps in that direction. Yet, one must know of

1 ANSI and be placed on its mailing list. To ANSI's credit, I
2 do not believe ANSI membership is required to be on the
3 list.

4 Despite the apparent glacial pace of some
5 standards development activities, time is of the essence in
6 these matters. Timely advance notice of key meetings is
7 essential if positions are to be determined, attendees
8 selected and travel plans made.

9 A national/international standards register is
10 needed which is comprehensive in nature and frequent in
11 publication.

12 Data such as meeting times, dates, places,
13 secretariat, with contact information, and standards matters
14 to be considered at each step in the development of national
15 or international standards should be included.

16 Publication frequency should be semi-weekly or at
17 least weekly. It should be sent -- via subscription or
18 otherwise -- to among others, all trade associations,
19 laboratories, government agencies and private standards
20 development or related organizations.

21 Standards development bodies, of whatever nature,
22 should include in their standards development procedures, a
23 requirement that notices of all standards meetings and
24 actions of or by their organization must be published in
25 this register.

1 Such publication would not only promote increased
2 involvement in standards development but assist in
3 satisfying certain aspects of what is often called
4 procedural due process.

5 The concerns I have expressed, as well as others
6 that could have been, must be addressed by the international
7 standards development community. They can be addressed by
8 adjustments to the current system, or by creating a totally
9 new system, but they must be addressed.

10 Thank you, and I would welcome any questions.

11 CHAIRMAN WARSHAW: Thank you very much, Mr.
12 Grover. Are there any questions from the panel for Mr.
13 Grover?

14 Thank you very much, and now I would like to ask
15 Mr. Brown of the National Association of Underwater
16 Instructors if he would present and introduce his associate.

17 MR. BROWN: Thank you, Mr. Chairman. My name is
18 Jim Brown and I am the national training director for the
19 National Association of Underwater Instructors and with me,
20 on my right, is our northeast regional business consultant,
21 Mr. Dale Fox.

22 Mr. Chairman and fellow participants of the
23 National Institute of Standards and Technology hearing,
24 again my name is Jim Brown and I am the director of training
25 for the National Association for Underwater Instructors.

1 NAUI appreciates this opportunity to address this
2 hearing.

3 I am pleased to be here today to represent the
4 views of the members of the National Association of
5 Underwater Instructors, NAUI, regarding improving U.S.
6 participation in international standards-related activity
7 and possible government actions.

8 Any issue that may affect the safety and welfare
9 of the general public when engaged in recreational
10 underwater activities is a matter of serious concern for
11 NAUI.

12 NAUI is a non-profit, democratic, educational
13 association with a worldwide membership of more than 7500
14 diving professionals. NAUI's global mission is to train and
15 educate the general public in the knowledge and skills
16 necessary for safe participation in recreational underwater
17 activities.

18 NAUI sets international standards for recreational
19 diving instruction, trains and educates diving leaders and
20 instructors to train and supervise the general public in
21 skin and scuba diving, provides educational resources, books
22 and publications, offers certification services to its
23 instructor members and sponsors the International Conference
24 on Underwater Education.

25 NAUI members reside in many countries of the

1 world. They reach recreational diving for retail dive
2 businesses, resort operations, universities and colleges,
3 youth camps, military and scientific organizations, and as
4 private contractors.

5 NAUI has always recognized the fundamental
6 necessity to meet the needs of the diving student and has
7 developed an educational system that fosters academic
8 freedom for NAUI members solely within the limitations of
9 NAUI diving course standards and our code of ethics.

10 NAUI is proud to be an influential member of the
11 diving community. The diving industry has matured over the
12 past four decades to a point where millions of people, both
13 here and abroad, enjoy the wonders and beauty of the
14 underwater world.

15 Hundreds of thousands of recreational scuba divers
16 travel each year to exotic destinations. They purchase
17 millions of dollars worth of scuba diving equipment and use
18 it with the assurance that it is well-designed, functional
19 and a good value. Most people in the United States learn to
20 scuba dive through retail dive stores.

21 The diving retail aspect of our community has also
22 matured. Retailers strive to offer good service, education
23 and competitive prices. They generally do not allow
24 uncertified divers to participate in diving trips, rent
25 scuba diving equipment or obtain air for their scuba tanks.

1 In light of these facts, NAUi wishes to point out
2 that the diving industry has achieved all of this
3 voluntarily, without involvement from or by the U.S.
4 Government.

5 All divers share a common beginning, the scuba
6 diving certification course. The knowledge, skills and
7 attitudes they gain and develop as a result of these diving
8 courses is largely dependent on the scuba instructor.

9 The instructor, in turn, is trained and authorized
10 to teach and issue diving certifications through various
11 scuba diving certification agencies. These agencies have
12 various interests, most of which are profit motivated,
13 relying heavily on contractual relationships with retailers.
14 In such cases, diving educational standards appear to be of
15 secondary importance.

16 As Americans venture forth to other parts of the
17 world, they encounter more and varied forms of diving
18 regulations, standards and customs. Divers from outside the
19 United States encounter similar situations when they visit
20 our country.

21 The general safety and welfare of all divers is
22 usually addressed in the form of standards, regulations and,
23 to a degree, local customs. There is, however, no formal
24 and recognized mechanism to fairly address the need for
25 uniformity in diving standards.

1 Furthermore, there appear to be misguided efforts
2 by private interests to monopolize diver training under the
3 guise of voluntary standards at the exclusion of several
4 diving standard-setting bodies.

5 NAUI, which represents public safety interest, is
6 alarmed by these developments and seeks to bring this matter
7 to the attention of those most affected by such matters --
8 the general public.

9 NAUI's reason for being here today are to make a
10 statement endorsing the need for increased global awareness
11 and support for a mechanism that will enable international
12 discussions and agreements on recreational diving
13 instruction, safety, and supervisory standards.

14 To point out the reasons for NAUI's
15 dissatisfaction with the current recreational diving
16 standards mechanism that appears to be self-serving and
17 contrary to the best interests and general welfare of the
18 public.

19 To make the participants here today aware of the
20 negative consequences of possible misdirected efforts to
21 control recreational diving instructional, safety, and
22 supervisory standards by private interests.

23 To propose that a working model of a democratic
24 recreational diving standards-setting body that represents
25 international public interests currently exists in the form

1 of NAUI.

2 The current process of voluntary standards in the
3 United States may be appropriate for the private sector.
4 However, based on NAUI's experience with this system, it
5 does not appear to be appropriate for the public sector.

6 NAUI has offered the premiere recreational diving
7 program and led the way in setting education standards in
8 diving for 30 years.

9 The American National Standards Institute, ANSI,
10 however, has sanctioned a group of diving equipment
11 manufacturers to officially approve and submit diving
12 training standards excluding NAUI.

13 Today, the ANSI-sanctioned standards process in
14 recreational diving is controlled by self-serving private
15 interests not directly involve in recreational diving
16 education. NAUI believes this is wrong.

17 The safety and welfare of the general public, in
18 NAUI's opinion, is not well served by the current standards-
19 setting system under the ANSI umbrella. Diving rules,
20 regulations, standards and guidelines that affect public
21 safety must be subject to public input through the
22 democratic process.

23 Any organization entrusted with developing
24 recreational diving safety standards must have public safety
25 as a primary feature of their mission statement. This is

1 especially true if we are to be able to conduct meaningful
2 discussions within the international recreational diving
3 community.

4 NAUI exists because diving professionals want it
5 to. They pay dues, register diving students, purchase
6 educational materials and vote for the representative of
7 their choice who, in turn, direct the path of the
8 association and oversee the standards and conduct of diving
9 instruction.

10 The global make-up of NAUI reinforces our point
11 that we stand as a working model of what is needed to
12 advance the cause of recreational diving instructional,
13 safety, and supervisory standards in the world diving
14 community.

15 NAUI does not favor government regulation of
16 diving standards. NAUI is in favor of a partnership with
17 any organization that will work for the betterment of diving
18 educational standards and the overall safety and welfare of
19 everyone.

20 In summary, I would like to emphasize the
21 following points.

22 American recreational diving safety, instructional
23 and supervisory standards must be addressed, in the
24 immediate future, by a representative body with the
25 appropriate recognition and authority necessary to ensure

1 that public safety and welfare is foremost in all global
2 discussions.

3 The current voluntary standards system does not
4 appear to place public safety as first priority and, in the
5 opinion of NAUI, is unduly influenced by self-serving
6 private interest at the expense of realistic and quality
7 standards.

8 The United States will not be able to take a
9 leadership role in the international recreational diving
10 education community if it allows profit-motivated bodies to
11 dilute standards in the interest of increased market share.

12 If left unaddressed or in the hands of self-
13 serving private interest, U.S. diving, instructional, safety
14 and supervisory standards will be grossly incompatible with
15 the rest of the world.

16 The Department of Commerce and the National
17 Institute of Standards and Technology is encouraged to
18 examine the issues raised in this testimony and consider an
19 active partnership with the diving community to ensure a
20 bright, safe and prosperous future for all.

21 Thank you for your time and consideration and I
22 would be glad to entertain any questions at this time.

23 CHAIRMAN WARSHAW: Thank you very much, Mr. Brown.
24 Any questions from the panel? Mr. Donaldson.

25 MR. DONALDSON: Mr. Brown, you indicated that NAUI

1 has membership from all over the world. Does that mean that
2 there are -- well, let me ask it in a different way. Are
3 there other organizations in other countries that have
4 voluntary standards activities similar to your own? Or are
5 these non-U.S. members in yours because they don't have such
6 a facility?

7 MR. BROWN: Well, in the world community, diving
8 standards are many. They proliferate in many different
9 countries.

10 The single largest non-U.S. certifier of divers,
11 and standards setter, is the World Diving Federation and
12 this is a democratic body with whom we have talks, but part
13 of the problem in pursuing such talks is the incompatibility
14 of standards.

15 They tend to view activities in the U.S. as being
16 difficult simply because no single entity represents U.S.
17 interests so they have trouble talking with all the
18 different organizations and different standards that seem to
19 proliferate here.

20 MR. DONALDSON: Does that mean that there are
21 other bodies in the United States such as your own that are
22 involved in voluntary standards development?

23 MR. BROWN: Yes, there are.

24 MR. DONALDSON: Are these other bodies
25 participants in the ANSI process from which you said you

1 were excluded?

2 MR. BROWN: Yes, they are. In fact, what they
3 have done is formed, they have incorporated and these are
4 all what we would call for-profit organizations and then
5 NAUI, because of the democratic nature of our association,
6 cannot submit the direction of the association or the will
7 and control of people who are not members, so we cannot join
8 such an incorporated body.

9 Therefore we cannot participate in the voluntary
10 standards process.

11 MR. DONALDSON: I'm afraid that I missed that.
12 Why are you excluded from ANSI?

13 MR. BROWN: We are excluded because we won't join
14 an incorporated body which is known as the Z 86.3 Technical
15 Committee for recreational diving standards.

16 MR. DONALDSON: I trust that your written
17 statement goes into more detail.

18 MR. BROWN: It does not. The one that I prepare,
19 the follow-up statement will.

20 MR. DONALDSON: Okay, very good. Thank you.

21 CHAIRMAN WARSHAW: We do have the comment period
22 open through June 5th so any additional details you could
23 provide along the lines of Mr. Donaldson's question would be
24 helpful.

25 Are there questions? Well, thank you very much,

1 Mr. Brown.

2 MR. DONALDSON: I have another question for Mr.
3 Grover, would you mind?

4 CHAIRMAN WARSHAW: Oh, you are going back to Mr.
5 Grover. No. Mr. Grover is wearing several hats these days.

6 MR. DONALDSON: I'm sorry, but I am a little bit
7 slow and sometimes I can't get my questions together quite
8 as fast as I would like.

9 MR. GROVER: That's all right.

10 MR. DONALDSON: Mr. Grover, you made a reference
11 to a lack of comprehensive current data on
12 national/international activities. Could you expand on what
13 you meant by that, please?

14 MR. GROVER: We would like to see an overall
15 register perhaps put out by NIST, perhaps put out jointly by
16 NIST and ANSI or another cooperative body, which would list
17 all international standards activities in one place that
18 would be published on a periodic basis, that would provide
19 us with information on meetings, on standards that are under
20 development, and on the U.S. approach and any input that is
21 being requested by the U.S. entities with regard to those
22 meetings.

23 We just feel that as of now the information that
24 we get as an association is pretty fragmented in that area,
25 except for what we get through ANSI.

1 MR. DONALDSON: So what you are saying, there are
2 such services available, some of which are provided by ANSI,
3 some of which are provided by other standards developers and
4 trade associations, but what you are saying is you would
5 like to see one integrated data or information source to
6 which you could access.

7 MR. GROVER: Right.

8 MR. DONALDSON: To be more efficient from your
9 point of view.

10 MR. GROVER: Right, a periodic publication that
11 would come out perhaps on a weekly or a biweekly basis, some
12 akin to the Federal Register. I think that would be an
13 excellent role for NIST in coordinating this.

14 MR. DONALDSON: The focus being on international
15 standards.

16 MR. GROVER: International standards and possibly
17 to a lesser extent, national standards.

18 MR. DONALDSON: Because I thought, when you made
19 the point, you said national and international I think.

20 MR. GROVER: To a lesser extent, national as well,
21 but international is the prime focus now, especially with EC
22 92 coming up and the overall, what we perceive, as the
23 overall globalization of the economy.

24 MR. DONALDSON: Within your area of interest, is
25 there now such information available within your sector?

1 MR. GROVER: Primarily from the EC. We work very
2 closely with an organization in Europe called AquiEuropa and
3 our executive director, Peter Sinsky, has gone over there
4 about six or seven times in the past year.

5 They are developing -- they don't currently
6 maintain -- but they are developing voluntary consensus
7 standards for the EC that I believe will be adopted through
8 the CEN/CENELEC process.

9 So that is our primary source of information now
10 and our primary foreign corresponding organizations is
11 AquiEuropa.

12 MR. DONALDSON: So is this really then relating
13 more to the developments going on at the EC level, or are
14 you interested at the international level as well because
15 the EC claims not to be international.

16 MR. GROVER: Sure. For the international level as
17 well. We see a real globalization of the world economy.
18 You can see it with the U.S. and Canada now, and President
19 Salinas in Mexico is talking about joining in with the
20 U.S./Canada free trade agreement, so we would have a North
21 American common market.

22 MR. DONALDSON: Some of us are working on that,
23 yes.

24 MR. GROVER: Increasingly we are moving towards a
25 unitary international standard for a lot of these products.

1 MR. DONALDSON: Well, thank you for your
2 elaboration and we will review that.

3 MR. GROVER: Sure.

4 CHAIRMAN WARSHAW: Thank you again, both of you.
5 We appreciate it.

6 MR. BROWN: Thank you, sir.

7 CHAIRMAN WARSHAW: If the representatives of the
8 Health Industry Manufacturers Association and the Equipment
9 Manufacturers Institute could come forth, we would
10 appreciate it.

11 (Pause.)

12 CHAIRMAN WARSHAW: Welcome gentlemen. I would
13 first like to call on Mr. Rozyński of the Health Industry
14 Manufacturers Association for their comments and
15 introduction of the associates.

16 MR. ROZYNSKI: Thank you very much. My name is Ed
17 Rozyński. I am the vice president for the international
18 programs at the Health Industry Manufacturers Association.
19 Also with me is Robert C. Flink, Chairman of HIMA's
20 standards and certification task force.

21 We would like to thank you for the opportunity to
22 testify today on behalf of our 315 companies who are
23 involved in the production, distribution and sale of medical
24 products.

25 HIMA's members account for over 90 percent of the

1 medical products sold in this country. We also account for
2 nearly half of the medical products sold in Europe and our
3 exports to Europe are about 40 percent of our total exports
4 around the world.

5 Our industry has generated a \$1.7 billion trade
6 surplus in 1989. We have run a trade surplus throughout the
7 1970's and 1980's and in 1989 we ran a trade surplus even
8 with Japan.

9 So I think that our industry is both active and
10 successful at home and abroad and we would like to build on
11 that success.

12 Standards-related issues are increasingly
13 important to the business environment for medical products.
14 Not only are standards an important component of many major
15 foreign countries' regulatory systems for medical devices,
16 but they also have a significant market access implication
17 for our industry.

18 Therefore, it is important that U.S. interests are
19 effectively served in international standards activities.
20 On the whole, I would say that the current U.S. standards
21 system has served the interests of our companies well, when
22 our companies have made the necessary commitment to the
23 standards development process.

24 HIMA encourages its members to participate
25 directly in national and international standards development

1 activities and to work where appropriate through ANSI. Our
2 stated policy objective is to promote the use of worldwide
3 standards as opposed to national or regional standards.

4 At the international level, HIMA has worked to
5 improve the participation of its members in the activities
6 of the ISO and the IEC. With respect to EC 1992, we also
7 encourage our members with operations in Europe to
8 participate in European standards activities and to
9 coordinate their action with their home offices.

10 In addition, we encourage the coordination of
11 horizontal standards activities in CEN and CENELEC in Europe
12 with those in the ISO and IEC. If coordinated properly,
13 these are effective ways to influence international and
14 European standards development

15 The major global standards-related issues facing
16 the medical products industry are access to the EC 1992
17 market and a reasonable level of regulations in that market.

18 The EC market is vitally important to our members
19 because that market accounts for over 40 percent of our
20 industry's exports. In addition, HIMA members account for
21 about 50 percent of the EC market.

22 More pertinent to this hearing, standards are the
23 linchpin of the European Community's move to create a
24 single, harmonized regulatory regime. This is very
25 different than the situation for our industry in the United

1 States where the focus of the regulatory approval process is
2 not on standards per se.

3 The EC's decision to build its new approach on a
4 foundation of standards and to rely on international
5 standards, where possible, has focused increased attention on
6 U.S. participation in the international standards system.

7 In the U.S., ANSI is among other things the
8 gatekeeper for U.S. participation in the international
9 standards process. In this respect, the U.S. standards
10 system is very decentralized as compared to Europe and
11 Canada.

12 However, we do not see this difference as a
13 liability. Currently, our members can participate in the
14 development of international standards through a variety of
15 means in the United States. As such, lacking any further
16 information, we would question any attempt to substitute
17 either in the public or private sector, a monolithic
18 structure for the current decentralized structure now in
19 place.

20 However, if the United States is to meet new
21 challenges posed by EC 1992 and the global marketplace, both
22 the private sector and the U.S. Government can do more to
23 improve U.S. participation in standards activities.

24 For its part, the U.S. Government should one,
25 include industry in any dialogue on standards issues with

1 foreign governments. Two, help the EC fulfill its
2 commitment to rely on international standards by carrying
3 forward any specific problems that may be identified by
4 industry.

5 Three, press for the establishment of non-European
6 notified bodies, and closely monitor the willingness of
7 European notified bodies to subcontract for test and
8 inspection data from non-European test houses. This was a
9 recent development that we thought was very positive in
10 Europe and we appreciate what the U.S. Government did to
11 move this along.

12 Four, to work with the U.S. industry to build a
13 greater understanding of Japanese standards issues, and
14 five, to supply and support experts for international
15 standards work as FDA has done.

16 The private sector, with the cooperation of
17 government, should one, increase participation in standards
18 development activities. This I believe is most critical.

19 Two, support ANSI's efforts to coordinate U.S.
20 participation in international standards activities.

21 Three, encourage U.S. parented companies in Europe
22 to participate in European standards activities.

23 Four, encourage U.S. and foreign companies and
24 standards-writing organizations to adopt an international
25 view in their work.

1 Five, redress U.S. concerns with the current
2 voting structure in the ISO and IEC>

3 I would like to underline the importance of
4 cooperation between the U.S. Government and the private
5 sector. HIMA participated in joint government/industry
6 meetings with the EC last fall. We believe that these
7 meetings were invaluable and that this type of
8 government/industry cooperation should continue.

9 In closing, I would say that the decentralized
10 U.S. standards system has proven to be workable when
11 companies have been willing to make the necessary
12 commitment.

13 While both the private sector and the U.S.
14 Government have roles to play in improving U.S.
15 participation, these roles need to be defined in such a way
16 as to maximize coordination and effectiveness in this
17 rapidly changing environment.

18 The current system is not the problem. Rather,
19 the problem is that we've failed to utilize the current
20 system.

21 We thank you for this opportunity to testify. We
22 would be more than happy to answer any questions you may
23 have.

24 CHAIRMAN WARSHAW: Thank you very much, Mr.
25 Rozynski.

1 Are there any questions of the Health Industry
2 Manufacturers Association? Mr. White.

3 MR. WHITE: Mr. Rozynski, could you supply us, if
4 you don't have it today, with statistics on the amount of
5 support that your organization and your members give to the
6 standards development, particularly international standards
7 development?

8 We are trying to get some better understanding of
9 what the different industry sectors are doing with respect
10 to involvement with ISO or IEC standards development, or
11 American standards activities that will be translated into
12 ISO and IEC activities.

13 If you've got, you or Mr. Flink have any comments
14 on that today, that would be helpful too.

15 MR. FLINK: If I may, I don't believe we have a
16 compilation now within HIMA of the individuals who are
17 active on each committee, but we do have a program in place
18 to develop a stronger view of the overall activity. It may
19 be possible for us to get information on the scope.

20 You are thinking about which committees and how
21 many people participate and that sort of information?

22 MR. WHITE: Yes, that kind of data would be
23 helpful.

24 MR. FLINK: I think we could probably provide a
25 review of that. I don't know if it would be completely

1 comprehensive, but I think we could give you a feeling for
2 the scale of the participation.

3 MR. WHITE: Thank you.

4 CHAIRMAN WARSHAW: Mr. Donaldson.

5 MR. DONALDSON: Mr. Rozyński, you mentioned in
6 your introduction that you had interests in the area of
7 testing and certification, and subsequently in your remarks,
8 you did certainly make reference to what is going on within
9 the European community, but you didn't bring those two
10 together.

11 Do you have any comments that you would like to
12 make at this time with respect to the testing and
13 certification issues as evolving within the European
14 Community and what implications you see for your industry in
15 the United States?

16 MR. ROZYNSKI: We purposely didn't go into so much
17 detail on testing and certification, because we wanted to
18 keep the focus on standards.

19 With regard to testing and certification in
20 Europe, as I mentioned, we are very pleased that the
21 Europeans now have decided that the European notified
22 bodies, the bodies that will be responsible for certifying
23 products for sale in Europe, will now accept subcontract
24 work to competent U.S. test houses so you can have your
25 tests done here in the United States, or have your

1 inspections done on your quality systems here in the U.S.,
2 and we think that's very positive.

3 In terms of testing and certification, having that
4 done in the U.S., that is a long way off because it will
5 require the negotiation of agreements between the EC and
6 some group in the United States, whether it is the U.S.
7 Government or private sector groups or some combination.

8 That won't happen, I don't believe, for three to
9 five years. Therefore, this other development of having
10 access through European notified bodies was almost
11 monumental to us.

12 CHAIRMAN WARSHAW: Thank you. Any other
13 questions?

14 Thank you very much, Mr. Rozynski. Mr.
15 Ritterbusch, if you could present your association's views
16 as well as introduce your associates, we would appreciate
17 it.

18 MR. RITTERBUSCH: Good afternoon, members of the
19 panel. On my right is John Hale from Ford New Holland. On
20 my left is Willard Jenkins from Deere and Company. I am
21 Gerald Ritterbusch, from Caterpillar. I am here today as
22 the chairman of the technical council of EMI, the Equipment
23 Manufacturers Institute. I will be presenting comments from
24 that basis.

25 EMI is the principal trade association in the

1 United States, representing the interests of manufacturers
2 of agricultural, earth-moving, construction, forestry,
3 materials handling and utility machinery and equipment.

4 Staff from EMI and member companies are actively
5 involved in the standards development process in the US. In
6 addition, EMI serves as the administrator for the USA TAG
7 for ISO TC 23, Agricultural and Forestry Machinery.

8 As a result the staff and member company
9 participants have accumulated substantial knowledge of the
10 standards systems in the U.S. and also at the international
11 level.

12 We would first like to discuss the domestic
13 standards system in which we are involved through our member
14 companies. Staff from EMI member companies directly and
15 actively participate in the standards development activities
16 of SAE, ASAE and ASME.

17 In addition, where no technical society serves the
18 needs of member companies, EMI committees develop proposals
19 for standards. These are then entered into the voluntary
20 standards development process. The committees follow the
21 ANSI guidelines to ensure that the standard is completed
22 within the ANSI procedures.

23 One of the essential roles of our institute is to
24 ensure that all member companies have the opportunity to
25 participate in the standards development process. To

1 accomplish this, EMI provides a means for member companies
2 to make their comments available to the standards
3 development committees.

4 This serves to include many manufacturers,
5 particularly the smaller ones, that may not have the
6 resources to commit to the direct work of the standards
7 development activity.

8 Further, we believe this even leverages the
9 resources of the technical societies in that it provides a
10 means of getting information around without the technical
11 societies putting up the resources.

12 And the member companies of EMI gladly fund this
13 activity as they feel it is a very important benefit to the
14 institute as well as the standards development
15 organizations.

16 Now, in our standards development activities, we
17 have noted a lack of participation from the public sector.
18 We also recognize the difficulty of the smaller companies
19 are likely to have in maintaining expensive participation.
20 We have found that by relying on EMI to use its resources,
21 we have been able to accomplish some of this.

22 We've maintained contact with the regulatory
23 agencies.

24 We would like, our encouragement today is that we
25 would like to have the various areas of OSHA, MSHA,

1 Department of Defense and EPA that are involved with the
2 products in our sector to become actively involved with the
3 standards development process.

4 EMI regards the basic structure of the U.S.
5 standards development process as sound and therefore, really
6 in summation, desires that all of the parties which benefit
7 from the process to participate in that.

8 Now, EMI has long had a policy of encouraging
9 participation in international activities and meetings. One
10 way we have helped this is by contributing funds for U.S.
11 delegates to attend the international meetings. This has
12 certainly helped to provide some participation where a
13 member company may not have been able to accumulate the
14 funds for this.

15 EMI also believes that it is necessary to have an
16 active domestic standards development process in order to be
17 able to propose standards and revisions into the
18 international arena, and to develop comments that the
19 resulting standards issued by international bodies
20 accurately reflect the knowledge available on this subject
21 in the U.S.

22 EMI is convinced that in the areas in which it
23 participates, U.S. views are being sufficiently presented
24 into the international arena and that the U.S. position is
25 being given a fair opportunity for success on the basis of

1 its merits.

2 EMI member companies have substantial interest in
3 the EC 92 process as many are involved through their multi-
4 national status or because of their export activities.

5 The agricultural and construction industries are
6 largely international in scope. The member companies
7 recognize that the process in Europe is just what needs to
8 be happen, the approach whereby the European Community
9 establishes the broad objectives to be accomplished and then
10 delegates development on specific technical specifications
11 to the private standards development bodies is applauded by
12 EMI member companies.

13 The standards development in Europe for EC 92 is
14 relying extensively on ISO standards. As the U.S. has had
15 extensive involvement with the development of the ISO
16 standards, harmonization between Europe and the U.S. could
17 very rapidly develop.

18 Therefore, EMI members believe that the direction
19 taken in Europe will be of benefit to its member companies.

20 With regard to the action within the U.S. on the
21 EC 92 process, EMI member companies believe that there needs
22 to be a partnership between the public and private sectors.
23 Proper roles needs to be identified for both the public and
24 private sectors.

25 There is a need for government-to-government

1 discussions and negotiations on issues of EC 92. Also there
2 is a need for private-to-private sector discussions on
3 standards issues.

4 The standards issue can be very effectively
5 handled through the existing structure of ANSI. As a
6 result, EMI feels there is no need for a system such as been
7 established in Canada.

8 The USTR and the DOC International Trade
9 Administration Office of European Affairs needs to work
10 through GATT and on a bilateral basis with the EC to obtain
11 agreements that non-tariff trade barriers will not be
12 erected and that any that still exist be removed.

13 ANSI needs to work with ISO to ensure that its
14 programs of developing standards continues to flourish and
15 meet the needs for standards by CEN.

16 ANSI also needs to maintain the liaison with CEN
17 to ensure that continued harmonization of standards between
18 CEN and ANSI is pursued. By exchanging information on work
19 programs and providing a means to submit comments on each
20 others standards being developed, greater opportunities for
21 harmonization can be obtained.

22 While this industry firmly supports manufacturers
23 declaration of conformity as the means of determining
24 compliance with standards, it recognizes the need for
25 testing and certification standards for some sectors.

1 In order for this process to be reasonable, EMI
2 member companies believe that the most important issue is to
3 gain acceptance of U.S.A. generated test data. In order for
4 this to be accomplished, it is necessary to harmonize the
5 standards for the performance of laboratories.

6 This is an issue on which both the private and
7 public sectors needs to collaborate. The private sector
8 needs to develop the need of standards to govern the
9 testing/certification procedures. The standards need to
10 offer the assurance of consistency between laboratories so
11 that the data which is generated can be accepted.

12 The public sector needs to develop agreements with
13 the EC and other countries that when test data is obtained
14 according to the test method and procedures defined by the
15 standards, that it, the test data, will be accepted for use
16 in each country.

17 Such agreements will significantly improve the
18 ability to trade products as it will reduce the lead time
19 required with testing and certification in the recipient
20 country.

21 Now, in our written comments which were submitted
22 two weeks ago, we detailed our discussion about the OECD
23 agricultural tractor testing scheme. Now, we would like to
24 point out that we consider that this OECD tractor testing
25 program to be a model both for international cooperative

1 voluntary third party certification programs, and of U.S.
2 industry/government cooperation implementing this country's
3 participation in the program.

4 We worked actively with the Department of State,
5 Department of Commerce and Department of Agriculture in
6 getting this all arranged and working. Quite frankly, I
7 think the Europeans really are amazed that we have been able
8 to pull this off in the U.S. and have it in both -- in fact,
9 I think all three of us here have had tractors now tested
10 through this new arrangement with utilizing the University
11 of Nebraska as the test laboratory.

12 We believe this is working. This is a good
13 example, I think, of how things can be worked out.

14 Now, in conclusion, EMI member companies believe
15 that the existing standard system is effective in producing
16 the needed national standards. Further the domestic
17 standards development processes is adequate in providing
18 support for the international standards activity.

19 The correction of shortcomings in the current
20 system that occur due to the lack of participation by some
21 who are, incidentally, are benefiting from the standards
22 work, can be accomplished within the current organizational
23 structure.

24 Public participation is definitely needed. This
25 can be accomplished by working with the public sector to

1 continue to enumerate the benefits of standards to the
2 public sector and stressing the needs to provide budget
3 consideration for this participation.

4 Where funding constraints exist in the private
5 sector, joint effort between the public and private sectors
6 needs to be undertaken to develop additional funding
7 support.

8 Incentives to promote private funding by all those
9 that are benefactors of the standards system is a quite
10 reasonable approach to be explored and developed.

11 EMI recommends that to improve the U.S. standards
12 development effectiveness, the following points should be
13 followed:

14 One, government agencies should bring their
15 participation into the standards development process.

16 Two, government agencies need to adopt
17 international standards for their regulatory requirements.

18 Three, financial incentives should be developed to
19 assist industry in providing more support to the standards
20 development process.

21 Four, there needs to be put in place the proper
22 agreements that will allow the acceptance of test data for
23 certification purposes wherever it is most reasonable to
24 conduct the test.

25 Fifth, both the public and private sectors

1 recognize the linkage between standards and trade and then
2 act accordingly.

3 Sixth, both the public and private sectors work
4 together to each effectively carry out their roles for
5 promoting the U.S. in trade.

6 Thank you very much for this opportunity to
7 participate in this hearing.

8 CHAIRMAN WARSHAW: Thank you very much, Mr.
9 Ritterbusch. Any questions from the panel? Mr. Leight.

10 MR. LEIGHT: I'd like to ask you the same question
11 I asked CIMA, prefacing it with the remark that as you know,
12 the negotiations on the OECD business pre-dated your
13 changing your name and our changing our name by many years.
14 It took an awful lot of persistent negotiation and agonizing
15 and aggravation before this was finally accomplished to get
16 this OECD model that you spoke of.

17 I wonder, based on how long it took to do that, do
18 you have any specific suggestions as to how we might
19 introduce the model into other areas for acceptance of test
20 data and certification on a more rapid track, a fast track
21 of some sort.

22 MR. RITTERBUSCH: I'm going to have Willard --
23 Willard, would you like to tackle this because you are most
24 deeply involved in that.

25 MR. JENKINS: Yes. I was involved in the last

1 four or five years in that and worked very closely with John
2 Lean and perhaps many of you know, if you look over the
3 whole scope, it did take a long time and I think part of it
4 was that we had to develop the interest here in the United
5 States to go to a more worldwide scheme.

6 Nebraska did have an existing law that we had to
7 work with, and it took a lot of this whole process, it was
8 just the mental conditioning for all of us involved -- the
9 industry and the State of Nebraska -- that it was time to go
10 to a worldwide scheme.

11 Hopefully, to shorten the time, we would find
12 other areas where you didn't have to go through all of that
13 conditioning.

14 Another part of the testing is in seed grading and
15 I don't know whether they had the same long gestation period
16 to get that all put in place, or not. So I can't really say
17 here is the way to make the time shorter, but we are pleased
18 with the way it is working and we would encourage
19 application of this concept to other areas.

20 MR. LEIGHT: Thank you.

21 CHAIRMAN WARSHAW: Any other questions? Well, we
22 thank both panelists today for their time, effort, energies
23 expended in putting forth these contributions and we
24 encourage you, if there is any additional information which
25 you have, to submit it to us by June 5th.

1 Thank you.

2 I would like to ask the representations of Gould
3 Energy, du Pont and the Advanced Ceramics Association if
4 they could come forward.

5 You will recall earlier we announced that Bussmann
6 cancelled.

7 (Pause.)

8 CHAIRMAN WARSHAW: Mr. Gould, if you could please
9 offer your comments, we would appreciate it.

10 MR. GOULD: Thank you. I appreciate the
11 opportunity to speak to the group today. I will give you
12 some of my background. I am a licensed private professional
13 engineer registered in New York and Pennsylvania and operate
14 a commercial testing and consulting small business with
15 operations in New York, Pennsylvania, West Virginia,
16 Missouri and Florida.

17 I have been a member of ASTM since about 1953 and
18 served on the ASTM D0-5 Executive Committee for many years.
19 I have been chairman of a couple of their subcommittees and
20 numerous sections and task groups.

21 In 1975, I was awarded the ASTM R.A. Glenn award
22 for many years of outstanding service and active
23 participation.

24 I have also been designated as expert to the U.S.
25 delegations to numerous international standards

1 organizations technical committee 27 meetings and have been
2 convener of two of its working groups, one of which is still
3 on-going today.

4 As a preamble to my comments, let me say that
5 there are many areas that are appropriate for government
6 involvement in the promulgation of standards, such as
7 maintaining primary standards for time, length, and
8 temperature, or standard reference materials, military
9 specifications and goods and services required by the
10 government.

11 Within this area, I am sure there is some basic
12 scope upon which all of us could agree.

13 The SCUSA proposal, while seemingly rather benign,
14 have potential societal ramifications of crucial importance
15 which have not been addressed in any of the documentation I
16 have seen.

17 We should take a look at the proposal in the
18 broader perspective of constitutional administrative law and
19 ask ourselves does the end justify the means? I hasten to
20 add that I am not a lawyer, but that does not preclude my
21 sensing danger ahead based on past history.

22 This nation has become one of the most, if not the
23 most, powerful and affluent societies in the world governed
24 by a unique constitution of guaranteed certain inalienable
25 rights with built-in checks and balances between

1 legislative, executive and judicial powers.

2 Typically, this hearing could be the first in a
3 chain of events leading to some fundamental changes in our
4 personal and business lives, not the least of which could be
5 further erosion of constitutional rights.

6 The hearing constitutes an element of discovery,
7 of the discovery process which will highlight the
8 shortcomings and weaknesses of existing systems as well as
9 the perceive benefits of SCUSA.

10 This creates an all important administrative
11 record which later can be used as justification for whatever
12 action is contemplated.

13 If history of any measure, such administrative
14 hearings typically lead next to formulation of proposed
15 legislation, generally of a type known as enabling
16 legislation.

17 Enabling legislation is where the process ceases
18 to be so benign. It is the means by which the legislative
19 arm of the government, Congress, abdicates its legislative
20 responsibilities to an agency that encompasses legislative
21 authority -- it writes its own rules, executive authority --
22 it administers and enforces the rules that it has written,
23 and judicial authority -- it sits as both judge and jury in
24 the judgment of those it deems to have violated its rules.

25 Our founding fathers went to great lengths to

1 prevent such dangerous power concentration. This has to be
2 the complete antithesis of our constitution, and yet we have
3 been suspending constitutional law this way for a long time.

4 Back 20 years ago, there were over 100 federal
5 regulatory agencies. Clearly such agencies are now deeply
6 embedded in our system of government. I wonder how many
7 there are today and to what extent they have eroded our
8 constitutional rights.

9 This is the fundamental danger which I wish to
10 sound a warning. Where do we draw the line?

11 In the case of the situation of SCUSA, it is a
12 little different. The point being that essentially SCUSA
13 represents an enlargement of scope, not the creation of a
14 new federal agency. To the extent to which this might
15 change the administrative procedures, I am not at all sure,
16 but that hardly matters if the bottom line is the same.

17 As a society, we saw the virtues of
18 standardization early on. This brought forth an outpouring
19 of voluntary consensus standards and we have indeed
20 benefited mightily from it.

21 Virtually everything about us is touched by
22 standardizations, from the simplest things like safety pins
23 and paper clips to the most complex things imaginable like
24 jet airplanes and nuclear power plants.

25 Everything -- the paper we write on, the

1 furniture we sit on, the metal and wood from which they are
2 made, our electric lights, the microphones we are speaking
3 into, electronic data processing, computers, automobiles we
4 drive, all the materials of construction of this building,
5 the building itself, the clothes we wear, the food we eat,
6 the air we breath, and the water we drink, literally
7 everything is standardized to one degree or another.

8 Place all this under the jurisdiction or direction
9 or coordination or whatever catchy euphemism can be
10 contrived for control by a single regulatory agency, and you
11 create the means for the greatest incremental undermining of
12 constitutional law and of our inalienable constitutional
13 rights yet devised.

14 If commercial standards are not driven by economic
15 forces, they will eventually decouple from economic reality.
16 As far as commercial standards go, SCUSA should not act as
17 accreditor of approved national standards develops, approved
18 national certification bodies, approved national quality
19 system assessment bodies, approved national laboratory
20 accreditation programs, or approved U.S. member bodies to
21 international or regional standards organizations.

22 The SCUSA proposal would simply politicize the
23 standardization process and open the door to influence
24 peddling, bribery and the kind of chicanery and corruption
25 that has currently surface in the regulation of the banking

1 industry, coupled with the inefficiencies for which the U.S.
2 Post Office is so well-known.

3 What is really scary is this would be for
4 absolutely everything that touches us in our daily lives and
5 business activities. The focus should not be on how we can
6 replace the existing system of voluntary consensus
7 standards, but how can we strengthen and nurture it.

8 One of the things, for example, that the existing
9 voluntary consensus standards infrastructure needs is a
10 favorable tax climate. I would like to suggest, and this
11 may be overstepping the bounds a little, but a stronger
12 concept involving both tax deductions and matching funds to
13 nurture and strengthen the existing voluntary consensus
14 standards infrastructure.

15 I have heard several people speak here today about
16 situations where funding is difficult to get, travel
17 expenses and I know myself, I have been trying to work with
18 a statistician from the Department of Agriculture and he
19 couldn't even get to go to Philadelphia from Washington.
20 The funds are not available.

21 This highlights the kind of situation that the
22 government does need more participation. Here is what I
23 would like to suggest and I would hope that you would take
24 this as conceptually, I am going to be a little specific at
25 points and I may even be misguided in some of the details,

1 so don't take it too literally, but conceptually I hope you
2 will understand what I'm talking about.

3 I would like to see registration of voluntary
4 consensus standards bodies as one of the elements in this
5 thing. A system of registration of voluntary consensus
6 standard bodies with the Department of Commerce and to be
7 eligible for registration, and organization would have to be
8 a not-for-profit membership corporation, the certificate of
9 incorporation of which would have to show that one of the
10 purposes for which the organization exists is the
11 promulgation and development of voluntary consensus
12 standards, and the bylaws of which would have to show the
13 scope of the standards jurisdiction and include provisions
14 for due process in the development and adoption of
15 standards.

16 I would note here that there would not be any
17 federal approval of the technical qualifications or anything
18 like that involved. Duplication of scope between
19 organizations is one of the problems I would see with such
20 registration.

21 Now, the purpose of such registration will become
22 clear as I go through the next two items.

23 Tax deductions for direct time and expenses.
24 Expenses are generally tax deductible already but beyond
25 that, I have heard several people mention this, that the

1 travel is the least of the cost. The contributed time of
2 the individuals, the payroll costs are enormous.

3 I would propose federal income tax deductions that
4 would be extended to corporations and individuals for timely
5 expenses, including travel, documented in accordance with
6 IRS requirements on assignments recorded in the minutes of
7 the registered voluntary consensus standards organization.

8 There would be a supplemental tax form similar to
9 a 1099 which I will call a Form A, covering the details of
10 the deductions applied for by the taxpayer which would be
11 filed with the taxpayer's return and a copy of which would
12 be sent to the corresponding voluntary consensus standards
13 organization or organizations.

14 Now, the purpose of all that would be a provision
15 for government matching funds. Each voluntary consensus
16 standards organization would annually file with the IRS an
17 application for matching funds substantiated on the Form A's
18 that I just mentioned received from their members.

19 The Federal Government would contribute matching
20 funds equivalent to some maximum percentage -- I'm not
21 trying to define that at this point -- of the total expenses
22 substantiated by the Form A's.

23 Use of matching federal funds for administrative
24 or operating expenses of voluntary consensus standards
25 organizations would be prohibited. Matching funds could be

1 used only for defraying the costs of experiments, studies
2 and investigations conducted by their duly formed
3 subcommittees or committees in the pursuit of their
4 assignments and for overseas travel and expenses incurred by
5 committee members to attend business meetings of
6 international standards organizations.

7 Unused funds would have to be reported, and
8 deducted from the Form A totals applied for in the following
9 year.

10 You see I am coming up with a lot of specifics
11 here. Again, the idea is to provide -- because I run up
12 against this myself -- the funding of the activities of the
13 standards writing business is a difficult situation.

14 In my business which is largely industrial fuels,
15 the coal industry, we run into this all the time. The coal
16 industry is one of the industries that is plagued by
17 abundance of supply and therefore a low mark-up so it is a
18 marginal economic industry, even though we are an
19 economically-based society.

20 I want to thank you very much for the time you
21 have given me today, and if I can answer or clarify any
22 points, I would be glad to try.

23 CHAIRMAN WARSHAW: Well, thank you very much, Mr.
24 Gould. Are there any questions from the panel?

25 Thank you, Mr. Gould.

1 Ms. Wardle, would you please present your
2 comments?

3 MS. WARDLE: Thank you. I appreciate the
4 opportunity to comment at this hearing. Since I appear to
5 be the clean-up batter, I will attempt to keep short and get
6 us all out of here on time.

7 CHAIRMAN WARSHAW: Well, somebody may show up.

8 MS. WARDLE: My name is Marilyn Wardle and I am a
9 senior research scientist at the Advanced Composite
10 Materials division of du Pont Company. I am also the
11 manager of our composite materials testing center which is
12 responsible for R&D and quality control testing of composite
13 materials.

14 My company is involved in the standards-making
15 process on the national level through the ASTM committees on
16 high modulus fibers and their composites -- that is
17 Committee D 30, and through the E 49 committee on the
18 computerization of materials properties data.

19 We are also active in the suppliers of advanced
20 composite materials association known as SACMA.

21 As producers of advanced composite materials and
22 parts, we are obviously users of standards primarily for
23 testing and materials. This is our major interest here
24 today.

25 Before I go into the details, I would like to say

1 that we believe that there may be a role for expanded
2 government participation in the international standards-
3 making activity, but that it should not provide for a
4 measured dislocation of the existing voluntary consensus
5 standards system which is already in place today.

6 By way of a little bit of background, the advanced
7 composite materials are themselves materials that are in a
8 very early stage of development. They are high performance
9 engineering materials and they can be tailored to specific
10 applications, to have specific desired properties by the
11 selection of the matrix materials, the reinforcement
12 materials, the geometry of the reinforcement, and the means
13 of processing the material.

14 As I mentioned, this technology is still in a
15 developmental stage. It is definitely not to the point say
16 where the metals industry is today. We believe there is
17 still potential for significant improvement in performance
18 over today's state-of-the-art in the composite materials and
19 it is an industry which has global interests, particularly
20 in the United States, in Europe and in Japan.

21 In view of the EC 92 impending changes, we are
22 obviously quite interested in the implications of these for
23 our industry. Many of us are involved in implementing the
24 ISO 9000 standards for quality control and are concerned
25 about how we are going to compete on an equal footing with

1 the industry indigenous in those areas.

2 The current applications of composites are
3 primarily in aircraft and aerospace industry, including
4 military hardware.

5 There are also some promising applications in
6 industrial equipment, recreational and automotive equipment.

7 Because of the state of the technology, being in a
8 very early state of development and the nature of the
9 applications, composite materials are subject to extensive
10 testing requirements. This is very expensive testing.

11 One U.S. consortium of composite materials users
12 is expecting to spend about \$75,000 per material for simply
13 basic screening tests on new composite materials. To do
14 full scale certification and qualification testing, this may
15 be in an order of magnitude, more expensive for these
16 materials.

17 Already the high cost of evaluating new materials
18 is having a dampening effect on the development of these new
19 materials. The effect of having redundant national test
20 standards in different areas of the world would be a severe
21 burden to this industry and may put the U.S. industry at a
22 competitive disadvantage and will certainly slow the
23 development of new materials.

24 An additional issue of interest, of course, is the
25 laboratory accreditation and certification and the potential

1 ability for us to obtain accreditation which would be
2 reciprocally recognized by other national and international
3 bodies.

4 Because of the novelty of the composite materials,
5 the standardization is in a very early state, particularly
6 in the area of test methods. Within the United States,
7 there is a lot of work going on in the voluntary standards
8 organizations such as ASTM to define common test methods,
9 but the progress is slow, even on the seemingly simplest
10 basic mechanical properties.

11 For example, there are at least a half a dozen
12 different compression test methods in wide use throughout
13 the industry for composite materials.

14 There are also developments that are going on in
15 Europe and Japan in parallel with these. There has been
16 relatively little coordination in the test methods up to
17 this point, partly because the materials are so complex, the
18 test methods are so complex, we haven't as a nation gotten
19 our act together, let alone gotten to the point where we can
20 effectively coordinate across national boundaries.

21 Some other types of standards that are making more
22 progress in the international scene are for data exchange.
23 In particular, I would like to cite the IGES, the
24 International Graphics Exchange Standard, and the PDES,
25 Product Data Exchange Standards which are being developed

1 for exchange of data between CAD/CAM systems.

2 This is being internationally coordinated through
3 NIST and has been very effective in that role.

4 Similarly, formats are reporting that
5 computerization of data being developed by the ASTM 49
6 committee are enjoying some coordination with our European
7 counterpart through the participation of individuals who are
8 members of ASTM and are also participating in the European
9 activities.

10 Some thoughts that I would like to share on the
11 role of government and industry in this process of
12 standardization.

13 It appears that a more coordinated approach to
14 international standards making would be in the best
15 interests of the advanced composites industry, but there are
16 certain caveats that must be observed.

17 First, this role of government should not be seen
18 by U.S. companies as an economic liability.

19 Secondly, whatever role government may take, it
20 must be additive to and not pre-emptive of the voluntary
21 standards process which is already established and in place.

22 Thirdly, the effort must be technically based.
23 That is the establishment of common standards must have a
24 sound technical basis as well as being politically and
25 economically important.

1 For such an approach to be successful, we believe
2 it would require a technically credible focal point similar
3 to the role that is being played by NIST in the IGES/PDES
4 standards.

5 Secondly, it would require participation by all
6 segments of the affected industry -- that is, the producers
7 of the material, the users of the material, and applicants
8 from the governmental organizations such as the Air Force,
9 NASA and other government and academic laboratories who have
10 an interest in the materials.

11 Funding should be available at a sufficient level
12 to make these activities meaningful.

13 The model of the leadership of the IGES/PDES
14 effort by NIST is a very good one. What it means is that
15 individual government employees who are technically
16 knowledgeable in the area under discussion, have been
17 allowed and encouraged to take part in the voluntary
18 consensus standard development and have been funded to do so
19 and allowed to take a leadership role and form a focal point
20 for the development of those standards.

21 Thank you for your time and I would be happy to
22 answer any questions you may have.

23 CHAIRMAN WARSHAW: Well, thank you, Ms. Wardle,
24 for your very illustrative comments. Are there any
25 questions? Ms. Moore.

1 MS. MOORE: You observed that you have been
2 working at least indirectly with the Europeans on testing
3 markets and progress on certification standards. Would your
4 ultimate goal be self-certification then or is that, would
5 that be the industry standard.

6 MS. WARDLE: That would certainly be the long-term
7 goal, but I see that as being quite a long ways down the
8 line yet.

9 MS. MOORE: Thank you.

10 CHAIRMAN WARSHAW: Mr. Donaldson.

11 MR. DONALDSON: Ms. Wardle, is the activity that
12 VAMUS is involved in, does that relate to your area of
13 coordination in the composite materials?

14 MS. WARDLE: Yes, the E 49 committee is in contact
15 with the VAMUS activities and attempting to do some cross-
16 coordination there so that we end up with comparable
17 products.

18 MR. DONALDSON: Thank you.

19 CHAIRMAN WARSHAW: Well, if there are no further
20 questions, we thank you both for your presentations and
21 again, if you have additional comments, we would more than
22 happy to receive them.

23 We will recess now and reconvene at 4:45, should
24 our final presenter show up. Otherwise, we will adjourn at
25 that point. Is the Advanced Ceramic Association here?

1 (Whereupon, a brief recess was taken at 4:35 p.m.
2 until 4:45 p.m.)

3 CHAIRMAN WARSHAW: We are back at 4:45 and Mr.
4 Hellem representing the U.S. Advanced Ceramics Association
5 has not appeared. I will place his statement, however in
6 the record at this time.

7 We will now adjourn until 9:00 tomorrow morning.

8 (Whereupon, at 4:45 p.m., the hearing was
9 adjourned, to reconvene at 9:00 a.m., Thursday, April 5,
10 1990.)

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ADDENDUM

The following presenters have submitted supplementary material for the record in addition to their presentations. This material is available in the U.S. Department of Commerce Central Reference and Records Inspection Facility, Room 6628, Hoover Building, Washington, DC 20230, (202/377-3271).

LABORATORIES, CERTIFIERS, ETC. (Continued)

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MET Electrical Testing Company

Peter Guzman, James Tucker, Earl Gmozer

ETL Testing Laboratories

James Johnson

Amador Corporation

Chester Grant

American Association for Laboratory Accreditation

Jim Mayben

Aerospace Industries Assn. Quality Assurance Committee &
Nat'l Security Industrial Assn. Quality & Reliab. Comm.

W. A. Simmons

National Conference of Standards Laboratories

George Moran

American Society for Nondestructive Testing

TRADE ASSOCIATIONS & COMPANIES

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6 LOCATION: Washington, D.C.
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11 National Institute of Standards and Technology.
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Equipment Manufacturers Institute

Gregory Gould
Gould Energy

Marilyn Wardle
E.I. du Pont de Nemours & Co.

Steven Hellem
U.S. Advanced Ceramics Association

BIBLIOGRAPHIC DATA SHEET

4. TITLE AND SUBTITLE

Transcript of Hearing on Improving U.S. Participation in International Standards Activities
Second Day: April 4, 1990

5. AUTHOR(S)

6. PERFORMING ORGANIZATION (IF JOINT OR OTHER THAN NIST, SEE INSTRUCTIONS)

U.S. DEPARTMENT OF COMMERCE
NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY
GAITHERSBURG, MD 20899

7. CONTRACT/GRANT NUMBER

8. TYPE OF REPORT AND PERIOD COVERED

NISTIR 4/4/90

9. SPONSORING ORGANIZATION NAME AND COMPLETE ADDRESS (STREET, CITY, STATE, ZIP)

10. SUPPLEMENTARY NOTES

DOCUMENT DESCRIBES A COMPUTER PROGRAM; SF-185, FIPS SOFTWARE SUMMARY, IS ATTACHED.

11. ABSTRACT (A 200-WORD OR LESS FACTUAL SUMMARY OF MOST SIGNIFICANT INFORMATION. IF DOCUMENT INCLUDES A SIGNIFICANT BIBLIOGRAPHY OR LITERATURE SURVEY, MENTION IT HERE.)

The National Institute of Standards and Technology (NIST) held a hearing in the Department of Commerce Auditorium on April 3, 1990, through April 5, 1990, to gather information, insights, and comments related to U.S. participation in international standards-related activities and to possible Government actions.

The written comments received regarding the April 3-5, 1990, hearing on U.S. Participation in International Standards activities will be on file after April 5, 1990, in the U.S. Department of Commerce Central Reference and Records Inspection Facility, Room 6628, Hoover Building, Washington, DC 20230, (202/377-3271), for the individual's perusal or copying. Copies of the test of the hearing can be obtained from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161, (703/487-4650); a copy of this text will also be made available in the same DOC Reference and Records Inspection facility after April 25, 1990.

12. KEY WORDS (6 TO 12 ENTRIES; ALPHABETICAL ORDER; CAPITALIZE ONLY PROPER NAMES; AND SEPARATE KEY WORDS BY SEMICOLONS)

Certification; hearing; international activities; laboratory accreditation; standards; testing.

13. AVAILABILITY

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14. NUMBER OF PRINTED PAGES

255

15. PRICE

A12

